

caacaacagc taggaaggca cagcaggccc g

151

<210> 12017

<211> 141

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220137c05a1

<400> 12017

ctcaaagtca acccaaaacg caactttcaa tacccaacac agaccacccc aaaagacagc 60

acggggcata atccagaacc accccacagc agacatagcc acgaccccg c caacacagct 120

caacaacaac taggaaggca c 141

<210> 12018

<211> 460

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220137c06a1

<400> 12018

ggcttttagg tcgttgtggg tggtttcaac tcggatcaca tccctgcttg cgtcgttcct 60

ttctgtctct accttttcgg tctctctctc tctctctctt tccaagacgc agagctgaat 120

taatcggcat tcatcacatc acagcgacac cagccctgat ttatcttttt ctgcctttgt 180

acctgtataa tatgcacaga gacagaaaga agggcagtaa gtatcctccc ggngagtctt 240

ctaatectca atcatcagaa aaagatgac acaataatga taaaatctt gctgaaggat 300

ctagtaaacc agagctgagt aacaagaata ctccacaatc actgaaggcc aaatctaaaa 360

ttgttaagaa atccaacggt ggtaagttca agaccataat aaataaaggt tctcaacaga 420

ttgngggaaa gagaagactt agaaagaaca aanaagtagt 460

<210> 12019

<211> 512

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220137c07a1

<400> 12019

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aaaatgaaag ttgatcctat gcctcttgaa taagggttaag ttgctgaaga gggaatggat   60
gcgaaaaggt ccataaaagg gttctcccaa gtgtttgact ctgaaagctc aaccagtaag  120
cagcagcatg ggaccgagag ggctcttctt gagttaattc ttccttgcat agatcaaagc  180
tctgatgaat ctcgtaattc ctttgcaagc gatttgatca aacaattaaa ttatattgag  240
caacaaataa ctttagttac tcgaggacca agtaagccaa cagcaagtac tcctgtgact  300
gaaggtcaga caaataaagt aaatagccgc aaaactataa gaggtggcag ccctgggtta  360
gccagacgac caacacctgc accagattct tctccacttt ctctgctgc tttgcgagca  420
tcaatatctn tacgtgtgca gttactcatg agatttcttc ctattctttg ctcagacggg  480
gcagtcttct gcaaggagca tgagatacat gc                                     512

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<210> 12020

<211> 202

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137c07d1

<400> 12020

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aaaaaaaaa ccctaatagt taacatttgg aaaaaaaaaa cccacaccaa gagaaaaata   60
agaaagaaaa aaacgcgaga cccccccaaa aaaaaaacia aaacaccaaaa aagccggagg  120
aaggcacaaa aacgccaata ccaaacaac cccgcccaaa aaaaacggaa aaagtacaaa  180
caaacgccaa gaacaccaaa cc                                     202

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<210> 12021

<211> 567

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220137c08a1

<400> 12021

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ggtggcttcg ggggtttaag gatcttcagc cgtctgttga tcccagtgcc ctatgctgat  120
cccgccgatg agtactgggt gctcatcggt gactggttcg gcaagagcca cactgccttg  180

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aaacatacat tggacagcgg acgcagcatt ggcaggccca gtgggggtcca catcaacggc 240
 aagaacggcg ggctcgaggc cctctacacc atggagcccg gaaagaccta taagtacaga 300
 atctgcaacg ttggggtcaa ggaagccctc aacttcagga tccaggggcca ccccatgaag 360
 ctcgttgaga ccgaaggctc ccacgttggt caaaacacct atgactccct cgacgtccac 420
 gtcggacagt gcttcaccgt cctcgttacc gccgaccagg agcccaggga ctacttcatg 480
 gtcgcctcca cgcgcttcac gaagaagggt ataactgcc a cgcgcgtgat tcgttactcg 540
 aatggcgtcn ggcccgcac cctctt 567

<210> 12022
 <211> 131
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220137c08d1
 <400> 12022

ttggattttt ttagtaaaaa aaacacccta ttatccccct ttttgaaaaa aaaaaccac 60
 acaaggggaa aaagggggga gaaaaaaccc cgacacaccc cccaaaccaa aaaaaaaca 120
 ccaaaaagca a 131

<210> 12023
 <211> 140
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220137c09a1
 <400> 12023

cccagctgct agccactacg gaaccggctt tacttttcaa agaccactcc acaagacagc 60
 acggggcagg attcactcgc aacccccagc agagacgggc acgacccgc caacacggct 120
 caactacagc taggaaggca 140

<210> 12024
 <211> 145
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220137c09d1

<400> 12024

acgaactttc atcacacgaa aaacaacacc attatgcaaa gttttggaac aacaaagcca 60
aaccagggca aaaaagggag aacaaaaagc gaaaacaccc ccaaccaca aaacgaaagg 120
gacaaaaaac cacagcaccg cccac 145

<210> 12025

<211> 606

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220137c10a1

<400> 12025

gctgtggcaa gtgggtaaaa ctctctggtt tagatctttt gcctgggtgat gttgtctcca 60
taggtcgctc ttctggtcag aatggggagg agaagtctgt accagcagac atgcttctat 120
tggctggaag tgtgattgtg aatgaagcct attctgacag gcgagtctac tcctcaatgg 180
aagatttcaa tcgcgggtag ggcgatggag gagacattgt ctgcaaagcg agataaaaac 240
catgtgttat ttggtggaac taaaatattg cagcacactc cagataagag ttttcctcta 300
aaaacacctg atggtggctg cttggctggt atcttgagaa cggggtttga aacaagtcaa 360
ggaaagtga tgcaacaat cttattctct acagaaaggg tgactgctaa tagctgggaa 420
agtggtattc tcattttatt cctggttgta ttgccccta ttgctgctgg ctatgtgctt 480
gctaaggggt tagaagatcc cacaaggagc aagtataaac ttatactaag ttgttcactt 540
attggtactt ctgtgatacc tncgtagtta ccaatggaat tatcaatagc tggtaatact 600
tctctg 606

<210> 12026

<211> 144

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220137c10d1

<400> 12026

tgatcctggg cggaaccaga agcaaactat antgcctatt aggagacca aacagagccc 60

ggcgagaaca gggggacaac agaaaacccg agacacaccc cacaccccaa acaaaaccca 120

caaaaaacga gccggaagcc aaaa 144

<210> 12027

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220137c12d1

<400> 12027

tgnngnanna nnnaatttta ttgaacttta tttacaacga acagcccacg aggggaccaa 60

cggggcaacc cgaagcggga caaaacggcg caaggaaaaa aaccgggggc caaagaaaca 120

aaaaacggaa atgctcttcc caaggccaaa accaaagggg gaaaaaaaaa ggccccaag 180

ggggagggcc aggggacacc caaaggggca cccaaaacaa cccaaagaga ccaggccggg 240

aaaagccgga agggggaaca cagaacccca caaaagccca caaagcggga cggccangcc 300

aaagacccca ggccctggga ccagggaag agccagggcc ctcaaagcaa cccaaaggga 360

caaaagcccc ccccggtgt ttgttcttcc ttggggcccc aggaatgctc ctttggggcc 420

ccccaaagga aatacccagg aattcaatgg cccaaatggg ggggtgg 467

<210> 12028

<211> 139

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137d02a1

<400> 12028

ctcaaacgca acccaaaacc caactttcaa tacccaacaa acaccaccgc acaagacagg 60

acggcgcata atccagaacc acccccagc agacacagcc acgacccaac caacacagct 120

caacaacaac taggaaggc 139

<210> 12029

<211> 138

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220137d03a1

<400> 12029

ctcaaacgca agcacacacg gaattttcta tacccaccaa agaccaccgc accagacagg 60
gcgggtcata atctagaacc acggcccagc agacatggcc cggacccac cgacacggct 120
caacaacaac tacgaagg 138

<210> 12030

<211> 138

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220137d04a1

<400> 12030

ctcaaacaca accaccaacg cacctttcca tacccaacac agaccaacac acaagacagg 60
acggggcaca atccagaccc accccacaga agacataggc acggccgagc caacacagct 120
cgacaacaac taggaagg 138

<210> 12031

<211> 392

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220137d05a1

<400> 12031

cgcgacgata cccagagtga cacttttccg tacaatcttc cttagataa aaacgaagag 60
ctgaggggag cggaatgggc actctgcagg ctgccgacgc atcgccgagc cgacgggatg 120
ctcgtgacat agcgggggac ccctgggtaa cgcgggaccc taggtctgac agagtcgagg 180
atactgacgg ctgagaggcc gtaacatggc gctgcggggc aaccactgc gctacgctct 240
gtggcaagtc aagcttgcaa ggcgagaacg aggagaggat ccaccgaaag gcatcggaac 300
ctgactatga actctgagaa aggacatctt cgcaggacat gaatgacatt tagaatctca 360
tcaactgctga accgggcatg atgcatttca tg 392

<210> 12032

<211> 565

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220137d06a1

<400> 12032

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ctttcttcaa cgtttccatc atacacagat tccattttctc tctcaagccc taatttcccc 60
tcatttccat ggctcacatg aagaagccca cctggtcgtc ggctggaatc ccnngtctcc 120
cgaaccctgt cctccgctcg atcccccttcc cccggaagga agaaagggaa ggaggcacca 180
taaccctgaa agccaagggc ttaagaaaaa ccaaggagcc caaacctaaa aaggtttcca 240
gacctcgcaa ccctcccact catccttctc acgaagagat ggttaaagat gcaattacct 300
cgctgaagga gaaaaccggt tcgagccaat acgcgattgc gaagttcatc gaggagaagc 360
acaagcagct tccaccgaac ttcaagaagc ttctttctcta ccatttgaag aagctcgctg 420
ccgccggaaa actcgtcaaa gtcaaaggct cgttcaagct cccacctacc agacctgctg 480
catcttcttc ttctttcttct tcgccggcaa aagagaaaaa gcccgagct gccaaagtcca 540
agcctaagcc taagcccaag cccgc 565

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<210> 12033

<211> 482

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137d07a1

<400> 12033

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gttccggcca ccggtgaccg gcaacacctc tacttttatt ccggggagcc cttaccataa 60
ccctaaccac taacaagctc ttttcatatt catggatcct ccggattctc agtcccagga 120
acaggaagcg cccaagaaga acggcgctcg tttttgtcat tctgcgatgg atcctcgca 180
ttctttttct tttctctctt ttctctcgat tccctttctg cttggcttac tggttctcat 240
gttcgccgat ttctccatcc ccaaccccat ttctctcccc tcacagtgca aaatcgctctc 300
cactggtggt gatattaggt catctaagat atgtgaactt ggattgtag attataaagc 360
acaggatgtg ttccatcatt ttgaaagaag caaatttcgc tgccgttatg attactattg 420
ggcttcagta ttcaagggtg aatataaaga tcacttttct ggtcagcaca agttgcattt 480
gc 482

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<210> 12034
 <211> 133
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220137d07d1

<400> 12034

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 acaaggggac aaaaggggaa gaaaaaaacg ccaaaaaccc accaaaacaa aacacaaaca 120
 cacaaaaaca gga 133

<210> 12035
 <211> 138
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220137d08a1

<400> 12035

cccagcggca acacaaaagc gaaccgcca tacgctacac agaccagacc gcaaggcacc 60
 acagggcagg atcaagaccg acgccacagc agagacaggg acgacccac cgacacagct 120
 caacaacaga gaggaagg 138

<210> 12036
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220137d09d1

<400> 12036

ggggaggaag ataggaagag aaaaagaaag aggaaaggga agaaagaagg ggaggaaaag 60
 gaagaagata aaaaataaga aacagacata atnnncacaa ggggnngagg agatgagcgt 120
 ccgaaaaccc gggngagagc ngataggggg cgggcgacct gggaantttt atagaggaaa 180
 aaaaaaaaaat taggggagtt tatggaaaaa aaaaggaaaa aaggggaaaa aaggggggag 240
 aaaaaaggga gagaaaaagg ggaaaaaaa acaaaagagg aaaagaggag gagagaggaa 300

aaaaaaagga aaaggagaag aaaagagaaa aaaaaaaagg gagagaaaag gaaaaagagg 360
ggaag 365

<210> 12037
<211> 139
<212> DNA
<213> Glycine max.

<223> Clone ID: jC-gmfl02220137d10a1

<400> 12037

ctcagacgca acctactacg cgaccggatt tacgtttcac agacgacacc acacgacaga 60
acgggggcagg atgcacacgc aacccccaga aaacaccagc ccggccgagc caaaacggat 120
caactacggc tacgaacgc 139

<210> 12038
<211> 155
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220137d11d1

<400> 12038

tttttctttc cggttcctac aagcgcacta tcttttttct tagggagacg caaaagaacc 60
acgcggggcac gggggagctt aagaaaaccg aaaacgaaca cacaccgcaa caaagacaca 120
caaaaaacga gccggaagca gaaaaggaga aaccc 155

<210> 12039
<211> 52
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220137d12d1

<400> 12039

tttntttttt aacacaattt attaacaatt tttctanncc aaanaaaaac gg 52

<210> 12040
<211> 342
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220137e02a1

<400> 12040

tggagccaat tcaatgggta tggcttatta taatgtagca tgtcttgcaa ttgttgatgg 60
 agggacagag cctagaatgt cgcttcgttaa agcttcaatt gttatcggtg gatatcagtt 120
 ggaggacaat cttttggagt ttgatgtggg cttcctccaa attaaagctt cagctcatcg 180
 ctggtgctcc acaatgccac atgttcacgt acttgaatgt catagcctta tagccttatt 240
 acgtgttgaa attagccact ttcaattatc tagtagcttc tataatcttc aatattaata 300
 ttatataata aaatatttaa ttaagtttgc tatgttgtaa gc 342

<210> 12041

<211> 497

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137e03a1

<400> 12041

caaacgcact cagagagaga gagagtgaga tcgaccaccc caagaggaaa ccaccaccca 60
 cagcctaacg gtgagcgaag aagacaatgg ccaccgccac agccaccagc agcggcaccg 120
 gaagcggcag cggcaccgac agcaggtagc cgcaaattac aatggatacc gacagtacca 180
 cccgacaacg ccagctcggt cgctcgctgc ggcgtcgctc aaaggatgct gttgctgtct 240
 gttccttcta ttctcggtcc tggcgctggt ggtgctagcg gtggtgctgg taataatcct 300
 agcgggtgaag ccgaagaagc cgcagttcga tcttgagcaa gtcgggggtgc agtacatggg 360
 catcacaccc aattccccct ccaccgcttc cctgtctctc accattcgcc tcctcttcgc 420
 cgccaccaac ccaacaaggg tccgatcagg tacggccagt ccagcttcac gtcatgtacc 480
 gcggcatccc cctcgga 497

<210> 12042

<211> 575

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137e04a1

<400> 12042

gagatttccg acatacctgg aggatttgat tcttttgaga aagcggcgaa gttctgttac 60
 ggcgttaact tcgagatcac gggtcacaac gtggcggcgc tgcactgcgc cgctgtgttc 120
 ctccagatga ccgacgagta ttgcgaacgg aaacctcgcc ggaaggacgg aggattttct 180
 ctctcaggtc ggccctctcca cgctccacag cgccgtcgcg gttctcaaata cctgccaaaa 240
 gattctcccc ttgcgcgcgc aggtcaacgt cgttgaccgc tgcgttgagg tcatcagctg 300
 caaggcttgc aacgaggcga attttccgag ccagtcgcgc ccgaactggt ggacggaaga 360
 gctcgccgtg ctgcagctgg attccttcgc gaaggatgat gccgcgatga agcagcgtgg 420
 cgcaagtac ctaaccgtcg ccggagcttt gattacgtac accgaacgcg cgctgaggga 480
 gctcgtaagg gatcactccg gcggcggaag aaggatccgg tcaccggaat ccggagactc 540
 cgattcggag tcgaaagaag cgaacagcgc gagct 575

<210> 12043
 <211> 649
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220137e05a1

 <400> 12043

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 cttgggctga cttggactgc tgttgtggaa agaaacatac gttcaatatt gtttcttgtt 120
 tgtgcaatta tttgtggcta tatatatcaa gtgtccacca tttcggttaa gctaccaggg 180
 gctgggagag cccttgtgct ttgcagcatt tgggcctttt gccacttgtg ccttttattt 240
 attacatggc agttcaaggc tacctcagct acctaattag aatgtcttat aatatttgat 300
 ttttcattgt tttgatatgg aatgatttgg acagtgtgat gaaccatttc cccttaagtg 360
 gaacggttct ttcagcatca attcttgttg gcttcacaac atctcttata ttgttttgca 420
 gtcatttcca tcagggtggaa ggagacaagg aggttgggaa aatgtcacct ttggtacctg 480
 cactttcttt aaattgaact tttttctaata ccatgttaata gatgtgaata tacctatggt 540
 acttatntc catttctctt tcangttaga ctgggcactt aaaaagggtgc anaggtagtg 600
 aaaggggcag tctttatgct ctatgcttct ttgggtgctt tgggtctaata 649

<210> 12044
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220137e06a1

<400> 12044

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 ctgcctgaaa aaaaccctc aattccaaac cttgcgatc cgatccaggt caattaattt 120
 ctctctctct ctctctctct ctagaatggg tttcccaacg cgcagatcta gcgtgcccga 180
 tctttcccgaggccgatgc ctncgaaatc gaccacttcg accgggttacc ggactcgctc 240
 ctctttttgg ttttcaacaa gatcggcgac gtcaaagccc taggccgctg ctgcgtcgtc 300
 tcgcgcgct tccactccct cgtcccgag gtcaaaaacc gtcgtcgtcc gcgtcgactg 360
 cgtcatcttc gacgacgact cctcttctta cgncccgnc ttcgacaagt cccgcggccc 420
 cttctggaac ctntccgnc tcgtcttcgg cggaatcgtg aaaccca 467

<210> 12045
 <211> 650
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220137e07a1

<400> 12045

cttcttgga gtgattatac tgaagggtga tgtttttttg gcattgttaa tgctattgag 60
 gttgtgaatg cattccctga ggaagatggc ctctgaaat tccggcaatg ggttgagtca 120
 ccggatccca ccaccttgg aagggttgaa tgcaaatagt ggttcaaatt ccagaaagaa 180
 aggggtcaaa aattgaagaa aagatgaatt cctcaagttg caatgttaaa gagtctgcgg 240
 tgatgcaaaa catctgccat gtcaggagc aaaatgagtt gtcagattac atccaagaaa 300
 taaaacaaac tttcttcaat aagcatagaa atgttagcaa gaattggcac attccttctt 360
 cttttccaag tgatactgtt atatctgctt actattctcc ccatgttgat aaatccactg 420
 agccattcac atgggggaaag ccagatcatc ttgttcttcg aaaattgtgc tgggagaaat 480

ttgggtggac tggccagaaa gcagatgaat ngatcctacc agtcttaagg agtataacca 540
gcgtgagact caattgcggt tggaagcatt ttacaatttt aatgacagat ttgcacaaaa 600
tcgtagtaaa agaattaaga aagcgggtaa aaggaatcac tggtaagcag 650

<210> 12046
<211> 180
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220137e07d1

<400> 12046

tgtgaatttt tttttaaaaa aaacacccaa ataattccct ttttgcaaaa acaaaccxaa 60
acaaggggac aatttggaat attaaaaacg tcaaatcccc acccatcaaa aacccaaaca 120
caaaaaactc tcacctacc acaaaaaact caaatcacc acaaaccaac ctcaaaacaa 180

<210> 12047
<211> 141
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220137e08a1

<400> 12047

cccagccgca agccaaaacc aaacgggcaa tacgttacac agaccagagc acaagacacc 60
acagcgcagg atccagaccg aggccacagc agagacgggc acgacccggc caacacggct 120
caacaacagc gaggaaggca c 141

<210> 12048
<211> 83
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220137e08d1

<400> 12048

aggacgatcc atccgaagnt tcacgggcca cgagctcaca ggcgccggcc gcccttgaa 60
tcactcaaga acaaaaacac acc 83

002230"EFFE50

<210> 12049
<211> 615
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220137e09a1

<400> 12049

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ataatcattc attccaacct acccttattc ttcttcttca atttcacacc catcatggac 120
cgttttccga tctcttttct cgtcggcacc cttcatcacc ctgcctccg gtgcccgcga 180
cgatattctc cggttaccct ccgaagcttc caggttcttc aaagcacctg ctaatgccga 240
tcaaaacgat gagggcacca ggtgggccgt ttagttgcc ggttccaatg gctactggaa 300
ttacaggcac cagtctgatg tttgccatgc atatcaacta ctgaggaaag gtggtgtgaa 360
agaggaaaat attgctgtat ttatgtatga tgacattgct ttcaatgaag agaaccacg 420
gcctggagtc attattaaca gtccacacgg aaatgatgtt tacaaggag ttcctaagga 480
ttacgttggg gaagatgtta ctgttgacaa cttttttgct gctatactng gaaataagtc 540
agctcttact ggtggcaatg gggaagctgt ggatagtggc cccaatgatc atatatntat 600
atactactct gatca 615

<210> 12050
<211> 247
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220137e09d1

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caaaaagccg aagaaagcgg aaacaacca aaaggacaca aacacagcac caaaccaaag 180
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ggggcag 247

[illegible]

<400> 12051

<210>	12052
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<400>	12052
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<212>	DNA
<213>	Glycine max

<400> 12053

5515

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 caagttg 487

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 <212> DNA
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<223> Clone ID: jC-gmf102220137f02a1

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 caccaacagc taggaaggca 140

<210> 12055
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 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220137f03a1

<400> 12055

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 gaacaacagc taggaaggca c 141

<210> 12056
 <211> 356
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220137f04a1

<400> 12056

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 cagacaacag ctaggaacgc acagaacata ggcaagagga ggaaacaggc gctatgaccg 180

ggggaccttt ttgcaagtgg atttttgtat ggagtgggtca agggtttgtc actagaagaa 240
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 acgtcggaga attggcaatg gatgtacaag cagatgcaga taaacggact gcccacgcct 360
 tccggtttat gcaaataaat agtagcaacc gttgccccct taatttgtgc tgtcttatat 420
 tttactggat ttaatgttgt ttttcttatt ctattgactt ctattattca tttcacacaa 480
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<210> 12059
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 <213> Glycine max
 <223> Clone ID: jC-gmf102220137f07a1
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 gactccgtca tcttcaactct cgaattccac cttgagcctc ttctccttcg ccttcgccag 180
 cgtcgaccgc tgctccttcg cctccgacgc gcacgaccac gactccttag cctccgaaat 240
 ctcaactccat ttggcagcac aggatcatga cggtgatttc gctcatagcg aaagctggag 300
 cgggtccagat ccggatctgg atccgaataa acgacaacaa caacgacatg cagatacaga 360
 ttcagatgca gcacacacga agcatcgccg aaatcgtttc tccgggaaag gagagaaagc 420
 gaaagttcaa aaggaagaag acagtgacgg tggtgacact gaggacggaa atcaacactt 480
 ggaatttgat tcggccagaa actctttctc tctggctctc aaagatgcca ggatcggagg 540
 tcaagatctg ggcgttattc aagaagcacg atcggcgaaa gcctgcttcg tagatctgaa 600
 catgcccatt gcatggcatg ttc 623

<210> 12060
 <211> 158
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220137f07d1

<400> 12060

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cccagaggaa aaaaggggaa gaaaaaaccc ccacacccca cccaaaacaa aaaaaaaca 120
acaaaaacca acagaaagcc aaaaaaaccc caaaccca 158

<210> 12061

<211> 155

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137f08a1

<400> 12061

cccagcggca agccacaacg caaccagcaa tcccctacaa agaccagacc gccagacacg 60
acggggcagg acccacacca agcgcacagc acagacagcc accacaccgc cgagacggcc 120
gaacaccaga gacgcaggga cgaaccgccg ggaac 155

<210> 12062

<211> 126

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137f08d1

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accaggggac aaagggggga gaaaaaacg cggaacccc gacaaacaa accaaaaaa 120
aaagaa 126

<210> 12063

<211> 477

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137f09a1

<400> 12063

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gaacatcggc atccactact acaagtctgc ttcttcttgg actatgttgt ctcgccattc 120

ctcaatcctc aacctctctt ctgtgacttt gacttcatgt catagccaag gtgttgacgg 180
 cgacgcattg ccatcttaca tgcattggacc tgagcatagc gaaccaaca tgcctctcac 240
 catcgaggca tctaactatgc ctgccccaa ggccgggtgca gttctcatca aaaccaaagc 300
 ctgtggagca tgccactctg atctacatga tatgcaagga gaaactacgc tcgtcagacc 360
 ttgtgatgca gagcatgaca ttaccgggtga ggctgtagca catggagcac tcaactgacag 420
 ctaaaccata gaaaggctgc cagtcggatc tcgagtagat gcagccttca tcatgcc 477

<210> 12064
 <211> 176
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220137f09d1
 <400> 12064

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 accggggcaa gggaaggaaa gaaaaaacg acacccccca tcaaccacaa acaaaaaaca 120
 acacaaagaa gcaaaaggcc acaaaaatgc caaaccacac caaacccgcc caaaaa 176

<210> 12065
 <211> 221
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220137f10d1
 <400> 12065

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 ggaatgaaaa aaccgacacc cccccacaaa accaaaccag aaaaacacaa aaggnaagagc 120
 aaggggccac aacgccaag cccacaaacc aggcacaaaa agaagcggaa aagcacaaac 180
 acacgggaag gggacgaaac ccaatgaaac aacaccacc c 221

<210> 12066
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220137f11d1

<400> 12066

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cgaccccaaca agccggcggc cgccctnaaa aanaaaanaa aaaattaaaa cacctattaa    120
aagaaaacaa aacacaaaag ccaccataaa agaaaaaaa aaccgcgcaa aaccccccaa    180
caccaaaaaa aaaaaaaaaa aaaaaccaa aaaggggaaa aaacaaaaaa aacaacaaaa    240
aacgaaacac aaaaaccaa acaccaaga caccaacaaa aaagcgcaaa aacaaaaaca    300
aaaacaccaa aaaaaaaaaa cacaagaacg aaaaaanaca caaaaaaaca    350

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<210> 12067
 <211> 370
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220137f12d1

<400> 12067

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aaagccaacc tccgcgcgga gactccaagc agaagaccac ccccgaggcc agagggaac    120
acgcgccgaa aacaggcacg acacggagaa agggggcccg caccaacggc aagggaacaa    180
cacgagaaca ggaggcccaa acaacaacaa cacacggacc gcagagccaa ccacgaaaac    240
accacaacca acccgcgga atagcagacc gcacccaac gtcccccgcc ccagagagga    300
aaacatcaag caaacagggg gaaagttcca attaccaaga aacctggctc aagggatgaa    360
aaaatagttg                                     370

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<210> 12068
 <211> 151
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220137g01a1

<400> 12068

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ctcaaaggct agccaaaacg caatttgcaa tatgcaacac agaccacccc aaaagacagg    60
gcagcgcata atccagaagc acccccagc agacagagcc acgaccccgcc caacacggct    120

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caacaacagc taggaaggca cagaatgccc g

151

<210> 12069

<211> 139

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137g02a1

<400> 12069

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acggggcata atccagaacc accccaccgc agacacagcc acggcccagc caacacagcc 120

caacaacaac aacgaaagc 139

<210> 12070

<211> 147

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137g03a1

<400> 12070

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acagcgcata atccagaccc accgcccagc agacacagcc acgacccgac caacacaggt 120

caccaacaac taggaacgca cagcata 147

<210> 12071

<211> 138

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137g04a1

<400> 12071

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acagggcata ctcaagaacc accgcccagc agacgaaggg acgagagagc acaacacgac 120

tcaacaacgg ccaggaaa 138

<210> 12072

<211> 145

<400> 12074

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 tcttcaaggg agagaataag ggacccttga gttcctaaag ctgcagccat ttggatcact 180
 ttctgttatt caagatgggtg attatactct ctatgaatct cgtgcaataa tcagatactt 240
 tgcagagaag tataaagacc aaggacaga cttgttgga aagacaatag aagaaaaagg 300
 tctagtggaa caatggcttg aagtagaagc tcataacttt caccaccac tctacaattt 360
 gggttattaat gttctgtttg cccattaac ggggtgctcct tctgaccaa aagtgataga 420
 agagagtgat aaaaagattg agaaggtgct ggatgtttat gaggagaggc tgtcaaagag 480
 caagtacttg gctggtgact ttttcaggct tgctgatctt agccaccttc catttgggtca 540
 ctatttg 547

<210> 12075

<211> 162

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137g07d1

<400> 12075

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 gggaagaaaa aaacgccaaa cccacccaa accaaaaaaa aaaaaccaca aagctgggga 120
 aaccacaaa aaaggcaaaa cccaacaacc cccgccaaa aa 162

<210> 12076

<211> 449

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137g08a1

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 acagcccagg actgacacgg accgccgagg aggaaagaaa cagacgcgca aaacacgagc 120
 cagcaagagc aaggatagga ggctatatat atcaagggtc caccatggca gataagccac 180

caggggctgg cagagccac ggcattgca gcaacaggac cagcagccac ctgcgccgta 240
gagccactac atggcagcac aaggttaccg aaactaccta caaagaatgc cacatacata 300
aggagcaagc acggacatga tatggcacga actggacaga gcgatcaacg cacgccccga 360
aagcggaacg agagcctcaa catcaagtcc cgacggcaac acaacaactc ttaacgagcc 420
ctgcaatcat caccatcagg cggaacgag 449

<210> 12077
<211> 103
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220137g08d1

<400> 12077

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acaggggggc aaaaggggaa gaaaaaaagg caacaacccc ccc 103

<210> 12078
<211> 593
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220137g09a1

<400> 12078

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cagtcaactg ttgccgtcaa ggaatgtttc gggaagtacg atgatgttct tcaacctggt 120
tgccattttg tgccatgggg tcttggttg cgatgtggct ggtgtccttt ctacgcgtgt 180
catgcagcta agtcttcggt gcgaaactaa gacaaaggac aatgtgtttg ttaatgtggt 240
tgccatcaatc caatatcgag cattggcaga aaaggcatca gatgcttact acaaactcac 300
caatacaaaa gcacagatac aatcctatgt ctttgatgtt atcagagcta ctgttccaaa 360
gatggaactt gatgctgttt ttgagcagaa gaacacaatt gcaaaagcag tggacgaaga 420
acttggaag gctatgtcag catatgggta cgagatagtt cagactctta ttgtggatat 480
tgtgccggat gagcatgtga agaaagccat gaatgagatt aatgctgctg caagattgan 540
ggtggctaca aacgacatag ctgaagcata gaaaataatg cagataaagc gag 593

<210> 12079
 <211> 451
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220137g09d1

<400> 12079

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 acccagaaaag gagagacgac ccacaaactg cagacggagc tattatgaat aacaatcacc 180
 gtgacagatc cacacaatgt ttttgtggga aggttctact cgctaactac agaacttaac 240
 ttattttcaac aggtcttttg cagacttagt aaactctcgc cccgcctcct gcggtgccac 300
 ctagaaaacc ttgaccgtca tcgagcgctt ctctgaatg cctcctccc gaccctgcat 360
 tctgaaaaca aactttttgt tgccggtcac cctaaagtgc aaaataaatt gccaccgcct 420
 gtaactttgc caacaccgcc gctaccgaaa g 451

<210> 12080
 <211> 182
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220137g10d1

<400> 12080

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 ccacaaacca agacagggac ccgaaaaaca aaaacgacag caaacccgca cgaagaagaa 180
 aa 182

<210> 12081
 <211> 137
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220137g11d1

<400> 12081

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gaaaggggaa aaaaaaaacc gcaaaaaccg cccaaccgag ancaaacaga aaaaaaaaaa 120
acaaaaacag agacaga 137

<210> 12082

<211> 137

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137g12d1

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gaaggggaaa acaaaacagc ccaaagcgcc caccaacaca cgacagacgc aaaaagaagc 120
caaaacacag aaacaga 137

<210> 12083

<211> 141

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137h01a1

<400> 12083

cacagacgca accaaacacc caacctccca taccgaagca agacaagcac aaaagacagg 60
gcggggcata atccagaacc accccaccgc agacagagca aacacaccca caaaacagca 120
caacaacaac aacgaaggca c 141

<210> 12084

<211> 355

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137h02a1

<400> 12084

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acggggcggc atttaaaccg gccctcccaa gaggaagacg ccgaaagctc aaccaatgag 120

caacaacagc taggaaagc

139

<210> 12088
<211> 566
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220137h06a1

<400> 12088

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tcagcgaatt cgtttttctc ttcaagcttc cggctatggc gtctggatcc tcgggtcgcg 180
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gactacgcca accgcgattc cacttccaac ggcaatcaca ccgatccgga ttttcacaaa 300
tcaaggatgg caagaacatc aatgtttcct actactgctt ataatccacc tgaagattct 360
ttaagtcaag atgtgattgc gactgtagag aagagtatga aaaaatatgc tgacaacct 420
atgcggtttc tagaggggaat tagttcaagg ctatcacaat tggaattata ctgttacaat 480
cttgacaaat ctattggaga aatgaaatct gatataaatc gtgaccatgt ggagcaagat 540
tcaaggctga aatctcttga aaacat 566

<210> 12089
<211> 310
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220137h07a1

<400> 12089

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gcacacaaa gacgccaact gcacaccacc ggattgaccg gaaagcacia cgcagaccga 180
ctgaaccacg agacatcacc agctcagccg tggacctgct ggacgatcag aggacgcaga 240
agccgaactg agcacataac atcggacccg gagccgcacg atgccagcgt caggaccggg 300
aaacagccca 310

<210> 12090
 <211> 532
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220137h07d1

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 aaataaaatt ttggcaaaat tctttgagaa aaatgttaaa tgtccctaatt ttgatatcta 180
 ttccaaaacc tttttcctca actttgcagt ttaacaattt gttgtgactc ctccaataac 240
 cattctaaat tccctctaac accccatccc cacccaaatt ttctctcact cctttccctt 300
 ctcatcttct ccttaaatta gtcgaataaa ccgagggtca agtgagaaat tgagtggaag 360
 ataaggacat tgatactgcc accaagaatg atatcatcaa acagtcaatc catcgaaccc 420
 aactgcttg taagtcagag attgctttct tggactgac actatagcac aatccaccga 480
 aacctgaaca gcaggagaat cgaagttgat gacgcggatc ttggcagcaa cg 532

<210> 12091
 <211> 360
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220137h08a1

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 acagcgaagg cgccagatgg aacacggagc acaccgcggc agcgcccaac agagccgcac 120
 aaggaagaca gaggaccgga caaggacgcc acagggacga cacatgggag cacgatcgag 180
 gccacagaca cagtcggcac taagcacgcc gcaagagcca gcacagagcc ggagaccggg 240
 cccaacacaa caacaatacg gcaggcgcaa caccgggcgg acgcaggaga cacggacgcc 300
 agccacatgc ccagcaaac agcacacgcg ccaagaccag acgccgacaa accgaaccca 360

<210> 12092
 <211> 531
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137h08d1

<400> 12092

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ttcttaatta ccaattggca ctttcatgaa aaaaattaac aatcaagaga gaaaacgtaa 180
ttacttcaaa aaaatttaaa attctttttg acaaagcttg gaattgacta aggaaagcaa 240
atctaggaaa tggagaacct tctctttctg ggcttgggtca agtccacagg ggcacgtcgt 300
atgtgtgacg tgtccttaga cccattcttg aacgggttca acttgctcag tttcttggac 360
atggacgaga agaacgtggg ctttttagtg ggccaatat tctccctccc agacgacgac 420
gttccgtgaa cattcttctg caaatcgga atgaacattt tcattttatc agtccgacc 480
gcagctcttc gttctccctc accaaggaca cgtcagcttg cagctgtttt t 531

<210> 12093

<211> 464

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137h09a1

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taggacgtgc caggacctga gcatatgtcc ttcccgtagc caatacactc ggacagatgc 180
cagaatgatt cgagatgacc aagtgtcag gagcaagcgg aactgtgca tgcagcccct 240
gataactgac gcgactgcat tcacttgatg gctcacgggtg ctaatatgaa cgttatacaa 300
ggacgggtca gaccaggtat tatgacacta cgggttcgac agtaggggtg acatttgagg 360
cttaaagtga gcggtgtc atcgtggaac cggcaccaca gaatatcttg tcaagacttg 420
agatgtaaaa agtcatgcaa atgggtgctag gtacgacgga catg 464

<210> 12094

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137h09d1

<400> 12094

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cagcaaatgt tttcgtgccg ctaatcaaca acgggttatt gggggaagat aaaatgaggc  180
gcctagatag gggaacccct tctgacctg ttcaaattga tgagggaagc ctgctgcaca  240
caacccttga ttggtttcag gggcatgcag tttctttcaa gcctccccctt aatgcaccac  300
attacttctt ttttcgacca gccaatcttt aactcaatat tggccctgat gcaaattttg  360
tatttttagc cagcactatt cctaaagcca gggcacctcc aaacaatgct tgaagcctca  420
caccgaagta cttacccatg aaaatcctat tttgtttctt ggaattggct tccacaaaac  480
t                                                                                   481

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<210> 12095

<211> 153

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137h10d1

<400> 12095

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ttgttttttt ttttgacgac ccccaaaatt tatacctttt tgggagagaa ccaaacaacc   60
aacggggaaa gggaaagaac aaaaagaccg cccacccca agcacacagc aaaaggaaga  120
acacaaacgg aaacaggggc ccacaaaacc aaa                                     153

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<210> 12096

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220137h11d1

<400> 12096

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ttgnnttttt tnnnnacgac tatcaaaatt tataacaaag caccacagaa accggggaca   60
accggggaac acaaaaaaac ccaaagcccc ccaaacaca accagacagc aaaacgcaac  120

```

ccaaacacag aaaccacag gcaaaaaacc caaaaacaca acaaagcgca cgccaacaac 180
 cgaacaaaca acccacagca cgggacaaaa accaccaaaa agccgacaac aaagaaaaag 240
 aaaagacca aaacaacccc gcggccaaac accaccagca cagagaggac aacgaacact 300
 cgaaggggcaa gccccggcga aaagcccaga cacaccacag caggagcggc aaccgacgcc 360
 ggcaccaaca aaccaccac c 381

<210> 12097
 <211> 335
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220137h12d1

<400> 12097

ttggtttttt ttttgacgcc tatcaaatc tataacaaaa caccacagaa accgagaaca 60
 aacagggaaa acataacacc aaaaagaccg cccaaacaca ccgagacggc aaaaggaagc 120
 caaaacacag aaaccgggag acaaacaacc aaaaaaaaga aaaaacccca cgcagaggcg 180
 gacaaaaagc cccagaaggg acagaaacca ataaaacccc caccacaagc gaaagcaaaa 240
 acctaaaaca atccgcaaaa caaaaaccac caaaacagcg atgacaacga gactcgcagc 300
 ggcaagccct ggcgaaatgc cgagacaaac cacag 335

<210> 12098
 <211> 410
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220133a01a1

<400> 12098

attcaactta agagatcaat atggccactt ttaccaagcc tccttctaata atatgtttcc 60
 tccttctggt gcttctagca cacttcatt tgggcaaag ccaagttgag ttgaattact 120
 actctaaaag ctgccccaaa gctgaagaag atatccagga acaagtcaca caactataca 180
 acaagcatgg aaactactgcc gtttcgtggg tcagaaatct cttccacgat tgcgtgggta 240
 agtcatgcga tgcataccta ctgttagcga cggtagcga ttagtggtcg gagcaggcgt 300
 cggatagaag ttttgggatg agaaacttca agtacgtaaa caccatcaaa gcagcgggtg 360

002240 "CTTCTE550

agaaagaatg ccccttgacg gtttcatgcg ctgacattgt tgctctttct

410

<210> 12099
<211> 151
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220138a01d1

<400> 12099

agcttagcnn tcnnnagggg nnnncggggn cccgcaaaga aacgtaatag aanncnctn 60

nnngtngngc gctactcgnc ggcggccgcc cttntttnt tttttttttt tttttttttt 120

acctttttga tgggggggctt tgttngctgg g 151

<210> 12100
<211> 542
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220138a02a1

<400> 12100

gaaccatagg tgtagtagta tgtggtttgt tgtgtttggt ggagaagaat aagcacataa 60

gtgctttagg gaagagttct gggacaagtg aggataagga tgagtcagag gaagtgcttc 120

aggccacaat tgagaagagt aagaaggttc ttgctttgca aagggaattg cttcaacaga 180

tttctgaaag aaggaaactg gtttcttcaa taaatagtga aagcactcct gaaatagaag 240

gagacagcat ttcttatgag cacagtgcg aatccttgtc aagtgactca attccgcaga 300

aaggttcagc caaaagaggc agtgctgttg agaacgaaaa tgggtgttctt gtttcaagca 360

attatgtcca atctattgag aaggaaatac cagatgtctc attttaggc attgatctcg 420

gtttggacaa aggtgaagag gaagatgata atctgtctcc tgttgaaaag gcttcaccta 480

ggctatattt tgatgaacag ttgaatagca ggagatatga gacaataaca cctgataccc 540

tg 542

<210> 12101
<211> 626
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220138a02d1

<400> 12101

```

ggttcaggcn nncnnnaggg gnnnnngggg ggncggaaga tgtactgaaa ctgaanntnc 60
gtgnnnnggtt ngnnngcgcnc actcgncggc ggccgccctt nnnnnnttnt tttggccant 120
nnngtttctn nctttatttt atntattgct ggattggggg tttagctccc ttggtntgtg 180
cccgacctga catatataac aagtgtatta ttacataatc cttagtttag gggcaaaaat 240
gttcctccag gacctgcaac atgaagggtt taacaacttg accaagtcct ttccctgcac 300
agaccttgat atcactcagc atgagagcac tccatattga tcagtctgct taggtagagt 360
agaagccaag aattttaccat tggctacttag cagcaacaag aacctcctca tactgctgag 420
cagcattgtc ccaactaaga tcttgcgtca tccctcgccg ttggagccct tcccagctct 480
gcttatactg cctgaagggtc aacaagcagt tccctaatagc atttattaac ttgttaagtt 540
tctgcactgt caaatgtcca cccaaggccc gactcttcaa atggattaaa aggcttcact 600
gtatccctca atccaccgac agcatg 626

```

<210> 12102

<211> 534

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220138a04a1

<400> 12102

```

ccttctctc cctctttccc catctcacat gatcgcgatg cacctctagg gtttctccct 60
ctccctgggt cgaaatttcg attcccgtac atgccatcgg tggaggaaga agatgtatag 120
caatttcaag gagcaagcga tagaatacgt gaagcaggcc gtgcaggaag acaatgccgg 180
aaactacgcy aaagcggttc ctctctacat gaacgccttg gagtacttca agacgcatct 240
caagtacgaa aagaacccta agatcaagga agccatcacg cagaagttca ccgagtacct 300
gcgccgggcy gaggagattc gggccgtgct cgacgacggc ggccccggtc cggcctccaa 360
cggggacgcy gctgtggctg caaggcccaa aaccaagcca aaggacggtg aaggcggtgg 420

```


gggccgaatt agaccagatg atcattcggg cactgatgat tacatagcca tgtacgaggc 420
 agccgtgagg cgcagcaag accttcgagc tgatgatact cgcagtgta tgcaacaggc 480
 caatgttcac cgtgcctact 500

<210> 12105
 <211> 546
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138a05d1
 <400> 12105

nnngggcgcg ggttggaact ttagcatnct cgntnngggg aagggcgcta ccagtcggcg 60
 gccgcccttt tttttttttt ttcatatgaa gctttcattt ttttaatgta ggaaaatcac 120
 actacacact ttggcattac acatggctag ctcatagccc tgaaattaac tcgatacatg 180
 gccaaagctaa taataccata tgatctaggg atgggtatttt tgatcatata catgataata 240
 catgtggaaa cttgagatcc tccaagacaa gaaattgaag gtgatgttga tttgggcggt 300
 ggtgtggtgt cagaaaaaac attgttggtt attatttcat tcacaccaag catctttggt 360
 cgcttttttg ttcagttcca ccaatgcttt ggcgcacctt ggatgaaatg gaggatagtg 420
 aaatgggaaa accaggggtg tcagtgtccc taatcacatt gtaagaccaa gctgctaaaa 480
 ccgccccagt aataggtcca acataatata cccaaagtcc cttgtagtat tgatgtcgca 540
 attgca 546

<210> 12106
 <211> 521
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220138a06a1
 <400> 12106

ctctgggtgg gtaaagatgg aagtgttcca gtagagtctt atgcttggtt ctggcgcat 60
 ttttgtggtt taatgctcaa catgcttttg taagttgtgc tttgacattt gagggtgcaaa 120
 gcaaaattgc taaagccaac caagagggac cttacctagg tttaatcata ccaaattctt 180

ttgaactaga ccctcttctt cagaatcctg gctacacagc tagtgacacc atcatagact 240
 tcgctggaag gagatttcgc tttggagcca ttggtgacaa gcctgttata ctgggtcatga 300
 caggattgag cgtgataaat gcagctataa cgactcagct tctgctgagt ttattcacgg 360
 tagaaggagt ggtgcattac ggcattgctg gaaatgcaaa cccgttcttg catattggag 420
 atgtagctat tccccaatatc tgggctcatc tagcactatg gagctggcag aggtatgggc 480
 tagggcctga tgacacatta cccttggaag acaatggaga c 521

<210> 12107
 <211> 521
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220138a06d1

<400> 12107

aaaaatcaat ttttttagtt attatcactc caaagtgcaa atcatcctca atggaacaac 60
 attaaggctg ttgcagttga gaagggtcac aactctgggt ggatatatat agcatagggg 120
 ggtgagatta ggggtttaag attgatgcaa taccctaag tatgggacca taaaaggcc 180
 ttatttgga agaagttccc tcttattctg acattcttga gccttgaagc aacttgggga 240
 aatctgtaac cgtggctgtc ctagacatca ggttcaggat cattattgac cagtctctaa 300
 cttgagacgg ttaaaaatga gtacataaaa taaatcttgg gtcattgtaca gtgatagttt 360
 ggaaacacag aaaatggaaa aagaccaga tactaagaaa ctaaaactac aattttgata 420
 tggaagaaa ggatgtacac tgcaactatc tggacagatt aattcagtca ttgtactaat 480
 aaggaaagtg aaaaaggat gagaaaaaat ggtaatgctc a 521

<210> 12108
 <211> 443
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220138a07a1

<400> 12108

tttccttcaa agcaaaacaa ttccttggtg aatcgggcgt cgcagctttc gtgataatga 60
 tcttggcgct gcgaatcgat tgcatggggt tggagaatgc cggagcttcg tagtggaccg 120

cgacgacgtc gcgctccggt tgctcgtaaa agctacgaac caccgtctac ggccgggaga 180
 tacgtcaaga ctgcgctgc agccgccaga gaggcagcgg ctgtggagag gccaagaact 240
 cgtttgccgg ccaaaaaaga ggagaatccc cttataataa tatccgatca cactaagaaa 300
 gacgacgtg ccgccatggc cgacgagagt ggtggcttga gtgcagacaa gggcgcttgct 360
 caagacgatg acaccaacgc agtcctttt acggagaggg ttcaagtcgg aggatcacct 420
 gtctacaaag tagagaggaa act 443

<210> 12109
 <211> 350
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138a08a1

<400> 12109
 gacgcacacg agagtcggca gcacctcctt ctgcgacgat tgctctctct ctgtcgcgct 60
 ttgatcaccg acttaggcgg aaactaaaga ctaggcaaag gggatgaagcc aacagctgaa 120
 gagctgcgtc gcatcatggg ctagtagcat aatacccgga atatgtctgt cactgctcat 180
 ggtgatcacg gaaaaccaac cctgactgac actgtgcgtg gctgctgctg ggattattgc 240
 taaggaagtt gcaggggacg gccgaatgac tgatacccggt acagatgaac ctgcacgagg 300
 tattacaatc aggtgtactg gtatctcact ctactctgaa atgactgatg 350

<210> 12110
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138a09a1

<400> 12110
 gtcggaaact gaatggaagt gaggggtagt acattgcgca tagcaaggaa gatcttcaca 60
 gatttccgga attatcttca cctatgtttg actatgttca aactgggaac aagagacctg 120
 gttttgttcc agtttctgat tctagaatgt ctgccccaat tgttcttggt atagatgaat 180
 gtttagatga accacaccta caccatctac agagttcttt gcatgctttt gttgattctc 240
 tcccgccgac aacgagatta ggaattatac tatatggtcg tactgtatca gtgtatgatc 300

gttcaggaca aaatattatt tattattaat aatgtttcgg ctgctaattgt tgaagctaaa 360
 gcaaaagagt tcaactgaaat ttgaaagag cagtactatc cttggtttgc acagtatatg 420
 gttatgaaaa gagcaagcat tgagccaaat ttccatgact tgtacttgaa attcctggat 480
 aaagctaatt caaaggcttt gaacaaagag attgtccagg caacttatga aaattgcaag 540
 gttctcctat gatcagagct catataatca agttc 575

<210> 12113
 <211> 533
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220138a11a1

<400> 12113

cgtgtccaaa gctttacctc aataagttat tttagaggtca agcagatgat aaacaaaaga 60
 tctaggcatg cctcatcttc aaaagttaca aatttaaagt aagtgttat atctcttatt 120
 agtactattg tatgtcgaat tggcttgggg agaaggtatg aagaggaggg atctgaaggt 180
 agcagattcc ataagttgct caatgagtgt gaagctatgt tgggtaactt ctttgtttca 240
 gattatattc ctttcatggg ttggatcgat aaactcaggg gactggatgc acgtatcgaa 300
 cgcaatttca aggagatgga taagttctac caagaagcca ttgatgaaca catgaattct 360
 acgagaaaaga ctccagaaga agaggattca gtcgatgtct tacttgaact gaaagagaac 420
 aacacgtgtt ccatagatct caccaatgat tacatcatag cagtgtcttt gaacttactc 480
 tgaggagcta caggttcaac tgaagtcaca acaatctggg ccatgactga act 533

<210> 12114
 <211> 590
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220138a12a1

<400> 12114

ggcactataa tatgaaccgc atcaggtccg tgtggtcaag catctggcat gttctctctg 60
 atttctttgt aactattggc tgtttggcaa acctttcaat tgcaattttt gcaatggatt 120
 ccttgctca gttatcaatg aaatttctgg agcgggaaga gctggccaat tataattttc 180

aaaatgaatt tatgaagcct tttgttattg ttatgcgaaa gagtaatgct gttgaaatta 240
 gagaactaat tatcagatgt gtctctcaaa tgggtctgtc tcgtgtcaac aatgtcaaat 300
 caggatggaa gagtatgttc atgacctgat ttcaggtatt cacaacagca gcttatgatg 360
 accacaaaaa cgttgtactc ttggcttttg aaattatgga gaagattatt cgagattact 420
 ttccatacat cactgagact gaaaccacaa ccttcacaga ctgtgtgaat tgcctaattg 480
 cattcaccaa tagtagattc aataaagaga ttagcctaaa tgccattgct tttcttcggc 540
 tctgtgctac agaactagct gcaagagacc ttggctcatc atcaagaaat 590

<210> 12115
 <211> 507
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220138b01a1
 <400> 12115

gctccaaatc cacgcacttt taaggacctt gttctaata tttgcgggtt gtttttgctc 60
 tcttcccttg ttgccttttg aggggtacagg gcctccaacg cgccacatgc tgacgtgtca 120
 tcgccagcat cgaacgatga acaacctaat cccacatcgg tgccttctcc gaaatggtag 180
 ccggtttcac ggggtgtttc ttctgggggtg tcggagaagt catcaagcat gttgtttgcg 240
 gttaaagatg gagcttcgga agcatttctt tgggacaata gcatgctgtc gtggcagaga 300
 actgcttttc atttccaacc agagaaaaac tggatgaacg atcctaacgg tcctatgtac 360
 tacaagggat ggtatcactt cttctaccaa tacaaccga acggtgcagt ttgggggtgac 420
 atagtttggg gacacgcaat gtcaaggagc atgatccact ggcttcacct tccactagca 480
 atggtggctg atcaatggta tgacatg 507

<210> 12116
 <211> 608
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138b01d1
 <400> 12116

aggtttagtn tnntcnnnag gggnnnnncg ggnnnncggt caaagaaaac taanagaann 60

cncntnnngg gtagncgcgc tactcgtegg cggccgccct tttttttttt tttttgnggg 120
 aatgggttttt gatctagaac ccataacttt atgtgtgggt atgggaaggt aaacaattga 180
 tgagtacaaa ttgccacccc aagatgtttt ccgatacctt gggactacaa gtcttttata 240
 tccaatttaa ttatttattt taattcttct gatcagggtg gaatgggcgt ataaatgcag 300
 aattcatttg ccaaacattg agtgaggctg tcacagtggc ctcagtagca ttgttgaaca 360
 agaacaacct agcagctcca tagattgcct ttgttgata aaccgagat gtcacaaccg 420
 tccttccacc ttgagcaaag ctttcaacaa tagaatggc caccagtatc cgcaaggaaa 480
 acttttcatc tttaagtact ggaacagcgc tgccaacgat ttgcttgca acatcatttg 540
 cctgagaaga ccttgattga tcagcgcaaa aggaagtctt aagatttcca ttgctccctt 600
 aatgacat 608

<210> 12117
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220138b02a1
 <400> 12117

gtattgttat aaccctagct tttagatttt catctctcgt ccattgtctg cgtctcactc 60
 atcctcaact cttcctctct tttcttccaa acccgaatct ggattctcct ctctcccgat 120
 ttcaattctc acggtcttca ccgatacgca gatctctaag caccgctctt gttttcatcg 180
 attaaataac aaacaaaaat tggtctcaatt ttattttaac atcctaacca aaaacaaaact 240
 tttcaccgga ttttaacatt cgagagtaaa tttagtttac ttgttgattt ttttttttgt 300
 ttgttttgat taagtttctg tttctattta aatcgataaa cggcgaggct gagcgtaga 360
 attcgaattt cggagaaaaa aagttacagg tattattagg ggaatcgctt ggaagcggtg 420
 aggagagtgt ttgatctgag gaaggaaaaa aatgggtggga g 461

<210> 12118
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220138b02d1

<400> 12118

gccgcngcnt gttttgcttt ccttgcnngcn gcctcttggg cgggggctcg ggcnctgcn 60
 tccatttctt tactcgactt cttcttcttt gtngaagccc ctttcttggg gcgctctttc 120
 ccctcncccg tnggtgtntc ctctctcccc ttttcggggc ctgtggccnn ntcgggcccc 180
 ttgtttgggt cngacctgtt ggggttgtct tnggattctt tcccctcctt ggaagcttta 240
 tccttctttt tcttcttctg ggaagttttg gattctgcag ggacattttc tttcttttct 300
 ccatctccat cagtctcaac acctgtctta tcctgagcac cttgagactc atctggacca 360
 tctttacttg gtttggggcg caccctaaaa tcagctagaa gagcctcaag c 411

<210> 12119

<211> 509

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220138b03a1

<400> 12119

gtgaatttaa ttgtagncta ttttttattt attattaatt aatggcagtg acaaactgaa 60
 gcatttgtcg tcaaagaagc aaaacgagat agcaagtttg gagaaagaga tagagtcact 120
 gatctgggag ttggtggagg aacgcaagag ggagtgtca gggacatcct catcagagaa 180
 ggatttgatg cagttgctgt tggaagcagc aatgactgat cagagtctgg ggaaggactt 240
 ctccaagcgt ttcatgtggg ataactgcaa aaacatttac tttgctggcc atgaaaccac 300
 agctgttgca gcctcttggg gtctgatgct tcttgctttg caccctgaat ggcagaccg 360
 tataaggact gaggtggctg aactttgccc caatggtgta ccagatgcag attctgtccc 420
 tctgttgaaa acggtggcta tgggtgattaa agaagtgcta cgtttatacc caccagcagc 480
 ctttgtttca agggaggcat atgaagata 509

<210> 12120

<211> 518

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133b03d1

<400> 12120

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aaagaagatt ttttttttta acctaaacaa tagttttatg ggtacaatac acatacaaac   60
atatgcaaaa atcttttgtgt cataagaaaa actaaatgct tgcacgttaa tgaaaataaa  120
agttgaatta tttgtgtcat tagctatgag ccgatcaaat ctcttgaatg agaatatgta  180
caccatgtcc cggttctaca atcattctat atgccggaga atgcctataa ctaggagaca  240
aagagaagct aaacttggag atgataagtg ctagcacaac cttcaattga accattgcaa  300
agttctttcc caagcacaag cgagtaccca atccaaatgg cacataagca tgtggaaacc  360
tgcaagcctt ggagacaccc tcgctaaacc tttctggttt aaactcattt gcactctggtc  420
cccaaatttc aggatctcta tgcagtgttg ggatcagagt ccataaacia acgccttttag  480
gaacattgag gtttccaatt tggatatctt catatgcc                               518

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<210> 12121

<211> 377

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220138b04a1

<400> 12121

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gtaatTTTTg gtgggcaaga tgctaattgg actctcttga atgatctgca tattcttgac   60
ttggaaacca tgacatggga cgaaattgat gctgttgggg tgccaccttc tccaaggctc  120
gatcactactg ctgctgtaca tgtggaccga tacttactta tctttggtgg gggttcgcat  180
gcaacatgct acaatgattt acatgttctt gatttgcaaa ctatggaatg gtctcgcccc  240
acgcagctag gagaaatacc atcaccacgt gctggacatg ctggtgtgac agtaggggag  300
aactggttca ttgttgggtg tggcgacaat aagagtgggg tctctgagac ggctgtactg  360
aatatgtcta cactgac                               377

```

<210> 12122

<211> 461

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220138b04d1

<400> 12124

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annntncnnt nnnngggttag ncgcgctcac ccgtcggcgg ccgccctttt tttttttttt 120
tttaatacaa acttttatta ttcgcactag tgtttgtata catacactaa agacaccttt 180
tctttcctat ttttttatat atcttctggc aaaatgttct accatgcccc aagtacaaaa 240
ttttatagat ctgagcaatc ctactagacc atgatctcaa ccctggattt tacaaaaaaaa 300
aaaaaaaaaa gaataaacia atgaagatat catagctaaa agaaatcaca agaaacaaat 360
aggtaagtgt tgtcgtaacc ctgaaagcat gttaattcca atcttgactg cttcttttaa 420
gacactactg tacaatgaaa atcctgcacc atcaaacatg cataaaatgt ggctgtttca 480
ggaagctcca gcaggtctta actgatatgc ctgatgactc ctttttgctt gaagggccat 540
agacatagat cttaacctgc tagttatctc tgtgaaggat ggccggcttt cagggtcagg 600
tgaccaacac tcttcataa gctt 624
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<210> 12125

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220138b06a1

<400> 12125

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gcgagaagag gagtgagaga agatgggggt gtcgttcacg aagctgttca gcatgttgct 120
tgcaagaat gaaatgagga ttctgatggg aggtctcgat gctgctggta agacatccat 180
cttgtaacag ctcatgcttg gagaaatcgt caccaccatc cccaccatcg gatttaatgt 240
tgagactgtg gagtacaaga acatcagctt cactgtgtgg gatgctgggt gtcaggacaa 300
gatccgtcct ctgtggaggc attatttgca gaacactcat ggtctcattt ttgtgggtga 360
tcgctatgat tgggatcgag tgggtgaggc aagggatgag ttgcacatga tgctggatga 420
tgatgaactt atagatgctg ttttgcttga ctttgccaac tagctagatc ttcctaagtc 480
agtgaatgct gcactagtta ctgtcaagct tggac 515
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<210> 12126
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220138b06d1

<400> 12126

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cccgggggaa ccctccgggg ttcccttttc ttntttgggc cctggggggg ggttctgggg 120
ctgggccccg gtctttnttt ttccgggggg ncnttntctg gggggttttg gtgtcccccg 180
ggggggccct gcttctcttt cttcttgccg cggggcgggg ggggggggct ttttccctgg 240
cccgggcccg tttgcccccc gggggggggt ggggggtgcg ttttctgccc gggccgggtg 300
tggnngtggt gtttttctgg cgtccccgcg tggggctccc cccctggggn gcgccggggc 360
cccgggtttc tgggtggggc cccccgtct tgcctgggt gtnggnnncc ttggggttcc 420
ccggggcccc cccccgtcg gtggggggcc ccttgtgggc tgctttgggt ggggctttg 479

<210> 12127
<211> 485
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220138b07a1

<400> 12127

aaaatactaa aaaaaaaaaa actacttadc acccaccaaa ccaaagcaaa agggaaagag 60
gacgatcggg aaagagagtg tctttaattt cacagtttca tagcaattat cgccgaaaaa 120
tgcaaaattt ccactcatat ctctttgttt atgacatcta aaacatctat ctactctcta 180
cccactttct cagtccagg tcagcaagag aaacagtact tatccatatt acagggttat 240
gtgaactgaa gagggagggt actggtttgt ggaggcagtg acacttttgc aagcttagaa 300
tcctctatcc tagttctttg tgaaaacaaa tagtgtgatg ctttcggagg ctacttttct 360
caaagcttgc gtgtagcact atctgcatat tggtgataag ttgaagtgtg ggaaaaaatc 420
taaagctaaa gagagtttgg gaagctggaa caatgggttc tggctgatgc tgtagagtt 480
ttgat 485

<210> 12128
 <211> 505
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138b08a1

<400> 12128

gctaccacca ccaatctatt gcgcctcaaa aaacaactcc ctcacgatta acaaactcgt 60
 gcattccacc aatcccaagg cacaacagca acaatgtcag caaccttaac atgtaaacta 120
 ggagacaaca acctaagctt aaacgataaa aacgaccaac ccccttcacc tcctcagccc 180
 ctacaaaaat gccctgccaa tatggtttcg atgggtggtct cagagctaag aattcaacga 240
 ggaatagccc ttccaatggg ggccatgaat ttggcttggt ttgccaagac agccatcaca 300
 acagcatttt taggccgtct tggggagctt agtttatcag gtggagctct cggcttcact 360
 tttgctaattg tcaactggctt ctctgtcctc aatgggtctat gtggtgccat ggaacctata 420
 tgtggacagg ctcatggtgc caaaaacttc aggtccttc acaagacct tctcatggca 480
 atctcgttgg tgctattggg atcac 505

<210> 12129
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138b08d1

<400> 12129

tnnnnnnnnn nnnnnnnnat ttcttatttt atnctcnaaa gaaaattatt tacttttgga 60
 cagtcaggat ttttatttta tactacaaga aagtaaaaga tcttttcogt ctctctaggc 120
 taaagatcag tatttcacat atttttatat atgtacatat acatgaactc actcatcaaa 180
 ctaagcacat gaaaaaaac ctatatactc tattttaata ttgtcgaatg aaattaaaga 240
 cagaattagt cctcgtcgtc tcaacttggtc cgaggaaatc agagactacc accctttcgc 300
 ttcttctata caaggtcaat gtcactcaaa gatggtcacc gtctcttggt agctagacaa 360
 ataactcaag aagtgactaa ctttgctgta aggacttttc accagtgcc aataatcagg 420
 agttttcatg aaaattgagg gatctagata aagctgcagg gttagccatc cacattggag 480

<210> 12130
 <211> 547
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138b09a1

<400> 12130

gaagaagata agcgatgttt gggttatcct gaagaaaggc ctctttgttg ggaggatcag 60
 gaagaagaag aagatggttg agcttcgcag cagcagcagc agcaacaacc actaccaatg 120
 gtggggccat ggaggagtgt ctttcacagc tccaatctca tgtccagaag gctcttgctg 180
 gtggaggacc cgaggcagtg aagaggaaca cgagtaggaa caagtttctg ccccgtagaa 240
 gaatcgatcg cctccttgat cccggttctt ccttcctcga gctttcacag cttgcaggac 300
 attacttgta tgaagaacct ttgccttctg gaggggttgt tactgggata ggtcctgtgc 360
 atgggagact gtgtatgttt gtggcgaatg atcccactgt taaggagggt acttattatc 420
 ccattactgt taagaagcac ctcaaggcac aggagattgc tgctcagtgc aaattgcctt 480
 gcatatatct tgtcgacagt ggaggagctt ttcttcccag caagccgaaa tgtttcggac 540
 agagaga 547

<210> 12131
 <211> 437
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138b09d1

<400> 12131

attaaaaaag gggagggttt attttactgg atacgggctc ctcggaagaa ttcaaactg 60
 atagatgacc cataagtttg acttgacata taccttattg gtgaacataa aaataaacg 120
 accctttgaa tattgggact aacttactag cctataaatt cataaaaaata accaattttg 180
 ctgagatcga caaggaactt tttcttttca catacggggc tgaaaaaat taccacttct 240
 ctttgctga agaggggggt tttttcagggt ggtcaaataa acttccatcg caaacacctc 300
 ggatgggttc tttctgcagt aatccactct tatcttttagc aagtttgtaa agaattttcc 360
 attcaaccac actaccaatc cttcctgaga aatcttttagg ctctctatct gcctttatca 420

tccccggtaa ctcacatca

437

<210> 12132
<211> 539
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220138b10a1

<400> 12132

atttcggtgc cactcaaaac aatcgcttgc cctatctctc acacacccaa acccaacatt 60
attaatactc ttccttctct ttacctttta cttttcgaag caaaaacacc ataacaaaac 120
accagaatt tgtgggttcc attcccaaaa catagaacaa gaaggagaga gagagagaga 180
gaatgcaacg ggagaaacaa aaaacagaag tatttctgtg attgattctc tgcaaccgaa 240
tcatcatcag ccacttcttc tcccagtttc agctctacce tctctcttct tttcctcggc 300
tctggttcgg caaggcgtag ggggttggtta ttattcttca taatggttgc aacagctgct 360
acggcgtcgt ttctccctgt gccttcgccg gacgctggaa aagggaaacc caatggtggc 420
ggcggcgccg gcgtttctgt gaacctcgga ggactcaaag agaagcaagg tttgtgcggt 480
tgcttgacag tcaaggcaaa cgcacaagcc ccttcgagac catggagaag gttgagaat 539

<210> 12133
<211> 593
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220138b11a1

<400> 12133

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tgatggagaa tggaagaaac ctgcttctgg gaaaagtgtt gccatcatca accccactac 120
cagaaagact caatacaaag ttcaagcttg ttcacaagag gaggttaaca ctggatcatgg 180
acttgcaaaa atctgccccaa aagtgatggg caaagacccc actatggaaa cgttctgaac 240
ttcttcacaa ggcagctgct atccttaaag agcacaagc accaattgca gagtgcctgg 300
tgaaagaaat agcagagcca gccaaagatg ctgttacaga ggctgtaaga tctggggatc 360
tggtttctta tactgctgaa gaaggcgtaa ggattctggg agagggaaag ctcttggtgt 420

tgctgaacct tcatggtgta actaaagagc ctaatttaga ggaatggact tgcacagctg 120
 aatctagtga tttgcttcat gaaccagttc gtatagcctt agaggggaaa tatacgtgcc 180
 tttcagattc ctacctctcc gttctaaagg ccttactgca tgcttatggt gattgccaaa 240
 agaaacttgt tgtggactgg attccagcta gcaaccttga aagtgcaact gcgaaagaga 300
 atcctgatgc ttctaaggca gcatggaagt tattaaaggg tgcagatggc gttcttggtc 360
 ctggagggtt tggagataga ggagtgcaag gaaaaattat tgcagacaaa tatgcccgcg 420
 aaaacaggat tccattcctt ggcgtttgtc ttggaatgca gattgctgac atagagtttg 480
 cacgatct 488

<210> 12138
 <211> 79
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138c02d1

<400> 12138
 agccttggtt tcttntnagg ggnnnnnnccg gnnnccccgc atagatacaa atnagtaann 60
 cncatnnnngg ggtagangc 79

<210> 12139
 <211> 555
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138c03a1

<400> 12139
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 cacttttcaa aaccagcac caaatgcaac tgtttaccct ctgaagataa gagaaggaga 120
 gaagcctgtg atggaggaac caatcacttt tgctgaaatg tacaggagga agatgagcaa 180
 ggacattgag attgcaagga tgaagaagct ggctaaggaa aagcatttgc aggaccttga 240
 gaatgaaaag catttgcaag aacttgatca gaaggcaaaa cttgaggcca agcctttgaa 300
 ggagattctt gcttaattaa taataattac atatgtatca tttgcatgcc cccttggtgt 360

tttttagtatt ttttaagggc catgaattaa taatagtcct tacctttgtg cttttgtacg 420
tcttatgatt tatectttgt ggggatatca tgtgttgtgt tcagttgcct atgtcttatt 480
agctagctgg ctcatctatg tataccttat atttgcctct attataaatg aaaataagtg 540
gcactgtctt tattt 555

<210> 12140
<211> 445
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220138c03d1
<400> 12140

aaaaaaaaa agggcccctt ttttttattt ataaaagagg gaaatataag ggtttcatag 60
aggagcccct ttgttaataa aaaattggca actgaacaca aaacatgatt tcccccaag 120
gggtaaattt taagacgtcc aaaagcccaa gggggggggc tttttttaat ttagggccct 180
taaaaaaac taaaaacacc gggggggggg gcgaaagaac catatgggat tttttttaat 240
taagcaaaaa tttcctttaa aggggtgggcc caaaggtttg ccttttgaaa aaatttttgg 300
aaaggctttt aatttttaag ggcccggaaa tgctttttct taaccagggt tttatcctt 360
ggaatttaaa ggccctggtt aaatttcccc cgggacaata aaagaaaagg gattgggttc 420
ttcaaaaagg gttttttttt ttttt 445

<210> 12141
<211> 455
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220138c04a1
<400> 12141

ctttcttgtc tgcttgcccc atcatttctc tttctctctc ttttgcccta aaagcacaac 60
cggcttcccta cataaagctc actcctctcc cctctctccc acttcattct ccaacactgt 120
cacatgggtt tttctccaca aacctgttct gtccctaag cccaccctt ttctgttcta 180
gcaaataacc gttcttatca atggctcaca actcagacag tgccacctcc aaccttcttc 240
ttctctgttc cgagaacagc agcacctgct tcgatgatga tggtttggaa tgtgatgccg 300

tccagaactg gaggacgact atggcgctct ggagccagcc ttcaccggcg aaaccatgca 300
gctgctgcac gagaagcacc accagactga cagtcaccaa cttcagcagg gccctcgagc 360
agatacaaga cgcacgctcc aggaaagatt cctgcgtcat caatgagctc cagggcgcca 420
tcgagttcag cggcagaggt gacgtgagcc attgtattat ccggaaaagt ctagctcctg 480
ttcgagaagg aggtggagaa ccacccatag ggtcactggg atggggcatt gacacacatc 540
acggctcttt tgaagcatta gcacanaaag ttaacgcaga aggtgctgga ctacaggggt 600
ctggatgggt gttgcttgca ctggacaag 629

<210> 12144
<211> 592
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220138c05d1
<400> 12144

agtcttagtc cccnnnnagg ggnnnnnngg tttncctgca caagaaacta aagtatncc 60
ngtnngnggt angccctnnc cngncggngg ncgncctttt tttttttttt ttttgcctcc 120
gatttgcnge ttttcnnngc tcgnggntct tcggggcgnc ggcgtgnntt tgtnngtggt 180
ttttctcccc tccccctnnc tctttttntt cccccctctc tccccgggctg cnnntctgtc 240
ntctcnggag ctntntccng tngcccttcc ngcctnngag ctctctttct catccccctc 300
nctggcgtgt ttcnntttt tncctttccc cgtgttcttc ngatngtctg gtcttccatt 360
cttgtgctgt nngtngtncg cttgtctccn nntctctnnc ccnngcnttg gggcccaatt 420
tggtccctta gtaaccagcg ggtcctgggt ggcagtgggt tcaactacaa gcctcttcaa 480
ctctttgtcc agaccaagcc acacccatcc agaccctgt agtgcagcac cttctgcatt 540
aactttttgg actaatgctt caaaagagcc aaaatgtgtg tcaatggccc at 592

<210> 12145
<211> 504
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220138c06a1
<400> 12145

ggagtcacag tattcaagat gcggaatcat cagacaaagg ggtttctct gttggacaag 60
 tgatagctct tttctaaga tcaaacctca cgatatctgc aacaaataat ggaaattctg 120
 gagttgtttc ggatgagcaa catgaagggg aaatagatta tgttggggtg ctaaactgag 180
 tccttccaaa tgacattcgg attatgggct ggtgtcctgc tctgttgat ttccatgcaa 240
 ggttcagctg ttttaagcagg gagtataaat atttcttttg gaaagaaaac ttgaacatcc 300
 cggccataga agttgctgga acaaaacttg taggagaaca tgactttaga aacttctgta 360
 caatggatgc agcaaagtgc cacaactata ggcgggtgcat cacattgttt gagatttctt 420
 ctacagatgt gacgcacaat gatgatcaac tttgggtgat taaaataaga agtaacgctt 480
 ttctatggca tcaggttcgc tgca 504

<210> 12146
 <211> 96
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138c06d1

 <400> 12146

ggtcacagtt cttnttnna ggggnnnnnn nncgggggn nccggggcat agaaagctaa 60
 naagaannnc nccctnnna atncccgca agaccc 96

<210> 12147
 <211> 441
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220138c07a1

 <400> 12147

tgcggttttc gaatctttca agatcttgcc agaacccttc aaaaccctct cttctctctt 60
 tcttcgatcg cttcgctga tattcttttc ggctgagatc aagcaaaaat gagcgtgggt 120
 ggatccgact ttgtaatga gagctgcatt gttgctgtcg caagacacag ggggattgac 180
 gttgtgctca acgatgagtc acagcgtgaa acacctgcaa ttgtatgctt tggtgacaaa 240
 cagcggctcc ttgggacagc cggggctgct tctactatga tgaacccaaa gaattccatc 300

tcacagataa cgagggtacc tggcctacaa tctgcggatc cggaattgca gcaagatatc 360
aagacgttcc cctttgtgga cactgtagga cctgatggac aatccttaat tcatgcacgg 420
cacttgggtg aatctaggac a 441

<210> 12148
<211> 448
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220138c07d1
<400> 12148

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aatacaacca gcattacagc atgcttaaatt ttcattccaa acaagaaaag agcagagagg 120
ctctgcttac gaatagcaga taaagtacac acagagaact acttacttat tcacggatcc 180
aaaaaaacag tagactagct cttctatttg tcaaaagcat aacgggcttg gaaactgcac 240
acccttaact agtgcaatca tgcaaaaaat gcatgatgcc tcatcatgat tgagagcact 300
cacggattaa ctggaactgg acctggaact ccaccaccac tcccagggtt tggaacctca 360
aaaccagggt ttgggacaaa cgtgtcatca ccacctggaa cgtaaccacg accagctggg 420
cctgacccta gtcccctacc accagtgt 448

<210> 12149
<211> 492
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220138c08a1
<400> 12149

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cccagttcgc gttctcgtca ctggagctgc agggcaaadc gggatgcat cttgtcccta 120
tgactgctag gggagcgacg ttgggtcctg accagcccgat gatcctccac atgcttgaca 180
ttactccggc agcagagtca ttgaatgggg ttaaaatgga attgggtggat gctgcattcc 240
ctcttcttaa aggcgttggt gccacaactg atgtgggtga ggcattgcact ggggtcaata 300
tggccgtgat ggttggtggc ttaccaagaa aagaaggat ggaaaggaag gaagtgatga 360

atgactcgtg ac

552

<210> 12152
<211> 500
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220138c09d1

<400> 12152

gtgtcatatc taggctatta agagacgctg gaatttatgc taatcttgaa gacatgcact 60
cactacactg atttgaatag tgtaatttcc gtgtccatgt acatttctat aatatattta 120
gaagaaaaca aaaattggaa gaaggataaa acataatatt aataagaagc aaggagctgg 180
gggaacttca tgagactaag attccctcac atctttgttc tcattattat ggggttgcca 240
cattttcctt tgctgtgga gcaatttctt ctccatcact tccaggttca ctgccaggaa 300
ctcccaggct tagcagcact tcctccact tcttagcagg ccccttccag gaaagatctt 360
gagccatgca gttctttatt atttctgtaa aagctggagt tccatagact gcaagggccc 420
ttttgacagt ctttgcata gcatccacat cagctggatc cacagcatca cattcaacac 480
tgaaggcacc catctgaaat 500

<210> 12153
<211> 486
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220138c10a1

<400> 12153

aaagaaagaa gttctaagga agagggttgt tgcagaatac aaggtgctag ttgtctattg 60
gcaattacaa catcagcgat ccaaccttag tattcttcaa cccagagaga ttgtaatac 120
taaattacaa caactgaaac gatggcagga ggagcttatg tagattcagg aaatgcaaag 180
caatttgatg ggaagggtcac ggcatcgtat ttggttacat gctttgtggc agccatggga 240
ggcttactct tcggttatga tcttgaata accggaggag tgacttctat ggaaccattt 300
ctgatcaaat tctttcccg gggttataaa caaatgcaag atgatgttgg ccatataagc 360
caatattgca aatttgacaa cgagctcctt aactgggtta cctcttactt gtatgttgct 420

gcattagtag cttctttctt tgctctcacc actacaagga tgatgggacg caaggcctcc 480
atgttc 486

<210> 12154
<211> 457
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220138c11a1

<400> 12154

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tgacaaagat ctaggctaag gcttggatta caaacacgag ggcttgcttc gccaaagagt 120
catgcagatc aggcttcagc actggaacca cgctgcaaca ttcactgggt atcatcaatc 180
atctgtggag cctactcatg accaaataga ctatgagcac actggatcac tcgcgagaca 240
gagaccttac gctatgaaca cgaacgtagt tcagtcaatg caaaggcaac agataacagc 300
agatgcatct atggataaac ccgaccaagg acttgccgac atactgcgtt caatggaata 360
cagcaagcat gatattctct gctgacgggt cccaataag ggagatcaag aatctgggaa 420
cataatgggt accaatgcca aagagccaat ccatgag 457

<210> 12155
<211> 558
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220138c12a1

<400> 12155

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tctcactatc actctcactg caaaaacaac acacagcaac aatttaataa ataaataaat 120
aaaagtggaa aagaagaaaa gccagattt ataatcacia tctagagaga gaaacaagca 180
gactatgaaa ctttctatct ccgaatttct ctctctaaaa ccaccgtctc gttctcagag 240
caactgcact ttctctccga ctctcgctcg gaggagcact tggatgtgag tggtttccac 300
atcggttaga tcggccatgg cggaggttcn cggcgaaggg ggagcagagg cgacagtggc 360
cacgccggtg ctgccgttgg cgggtgtctgg atcgtctcaag gaagggaaga gctcgtcgcg 420

gaggcgcgcg cattcgatga gggcgagcct cgacgcggac gagttcatga acctgttgca 480
 cggttcggat cgggtgaagg tggagctcaa tcggttggag atgaaatgag agatatgaca 540
 gagaattatc agaagcgc 558

<210> 12156
 <211> 502
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138d01a1

<400> 12156
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 gcttcccaa tggcaagcca actcaagtcc accttacta ggactcttgt agtcccaag 120
 ggctctctg cctcttcacc acttcacctc gtgccttcta gaaggcaatt tagcttcact 180
 gttaaggcca tccaatcaga gaagccaacc tatcaagtga ttcagccaat caacggtgac 240
 ccattcattg gaagcctgga aaccccagtt acatccagcc ctttgatcgc atgggtacttg 300
 tccaacctgc ccgcatacag aaccgcagtg agcccactac taagagggat cgagggtggg 360
 ctggcccacg gataccttct ggtgggcca ttcgtgaagg ccgggcctct taggaacacc 420
 gagatcgccc ggcaagcggg ctctctggcc gcccggtggg ttgtggtgat cctcagcctt 480
 tgctcacaa tctatgggat tt 502

<210> 12157
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220138d01d1
 <400> 12157

aaaaaagggg gagagtggga gagaggaatg aacattatcc catggcgggg ggcacacaaa 60
 acatcattta caccatctt tatgggacaa atagtccatt catggggaag gaataagaaa 120
 aagtaaagaa agctaggaag cacatccatc attggatgga gtatggaagg gccaaagacgt 180
 agagggggaa gggggcccaa ataacacccg aaatgcccc gaaaaaaaag cccccgggga 240

actgggcccc cccatcaaca gtttggagct gatcgggctc ctttttgcg cccgtcaagg 300
gcagcgacgg agcaggggag ggggctcctt cgttgagga ggaaaccca taaattggga 360
ggcaaaggct gaggatcacc acaagcccac cggcgccaa agagcccgct tgcccggcg 419

<210> 12158
<211> 537
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220138d02a1

<400> 12158

ttcatatatt gcattgcctc attgctacct ctctctcaac ttagtattta tttcaaaaat 60
ccatttgcaa tccatttcaa aaatcacatt ctgcagtcct atttccgtga tccagtgcatt 120
ggattgcagc aaaccaagcg tctcaccttc gttgacttgc tgcactgaat ttatcatcac 180
aaggtaggag gaaaagggtga taaaattaac aacatggatt taagaattaa tactatattt 240
tcgtacctct tttgcatttt taattttttt tcttcttaaa aatactatct cttttcatta 300
actctttttt gaaacatatt ttgatattta taaatatttt taaatttagt ttctgaatta 360
tattaaaaat atcctggaaa ttatcaacgt ttatttcttc ttttcttttc tctttttcat 420
tattacaaca attactagtt actagtgtgt gcagaanaag gtagattgat gtattatgtg 480
ttaaaacttt taggaatata tttgaatggt ttatgtattc tgaaaaattg gttttta 537

<210> 12159
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220138d02d1

<400> 12159

agccnttcgg cnntccnncn aggggnnnnn nagtggnnnn cccggcatat gaaccattan 60
nagtatnnnc catnnnnngg tagnnccgnc tcccagncgg cggccgccct tttttttttt 120
tttttttttt tttttttttt tttttttttt tttttttttt ttttttgggg ttttgggttt 180
tttttttttc tttttttctc ctctctccct tttttctttt tttttctctt ttttttccc 240

0022260 E F F E S S O

gaactacata aaagggttag cggcattgac cacatcagat cacatcattg gagtccacat 120
ctctcacggt gctgcaaggg tgtcatgtca agagctatat caaggagcac atgcagacta 180
agagctctct ttctcatata ctacactggc atagggccaa ttaacaacat ttccaaaggt 240
tcgtcagata gtctgggtcta acattcttgg actggggggag gacgcatgct cccaaacatg 300
caataccaag caatggaacc aaagtcggtc cctgaggaac cagcggggcc tggaaggcgg 360
gggatagaac tacaagcctg ttcagcggtt tggacaaacg aagccacacc gatccagacc 420
cct 423

<210> 12166
<211> 519
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220138d06a1

<400> 12166

gagcgagcga gcgagcagta tcaaattgtgg atctgggatt gggaaggcga gggattgcgc 60
tgcgctctctt cctcttctct ttcgattcat ccctcattca taatcttcca atccaacaac 120
ctcagcctca cactcacaca tacacacata tgaacgcgta tcgtccctcc catgacttca 180
aagcgcatcc tcaaggagct caaggactcg cagaaagacc caccaacttc ttgctgcgct 240
gttccagtcg ctgaggacat gtcccattgg caagcaacga ttatgggtcc tgctgatagt 300
ccttatgctg gaggtgtatt cctagtcact attcactttc ctccggatta tcctttcgaa 360
cctgccatgg ttgacttttag gaccaaggcg tttcatccga acatcaacag caatggtagc 420
attagtcttg ctatccttaa agagcattgg agccctgcac tcaccatcta tgacgcactg 480
ctttctatag gctcattgct gactgatcca aatcctgat 519

<210> 12167
<211> 539
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220138d06d1

<400> 12167


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ttntntttttt tttttttttt ttatagtttt aattttgatc aatcttcaca tggcatctga    60
tcaaaatttg ttattgtata ttaaaaattc cgattaatgt aacagtgaag attgagtcga    120
ccatgatgac cgtggaatct agattatata ataatttctt ccggagagggc tttaatgagg    180
ctctcatgca gccatgggctt cctcgtcacg gatctcggtt tcgccttctt cgctggcggc    240
ggcgtcttga tactgttgat actctgccac caagtcattc atgttgctct cagcctcggt    300
aaactccatc tcatccattc cctcggcagt gtaccaatgc aagaaggctt ttctcttgaa    360
catgacagtg aactgctcgg agacgcggcg aaacatctcc tgaatggagg tggagttccc    420
catgaagggtg gaggacatgg agaggcccggt gggaggggatg tcacagacgc tggacttgac    480
gttgttgggg atccactcca cgaagtagga ggagtcttctg ttctgcacgt tgatcatct    539

```

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<210>      12168
<211>      522
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220138d07a1

<400>      12168

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gtcattttga tcttttagcta ttgtgttggc ccattcattt atactttaaa ttttaatttt    60
aatggccatc gtgtctcatt ctatttggtc aaacctttgg gcattttcag tcttatttta    120
ttattcaata ttaggatgaa atttatgtac gaaatcatca gacttaatct tcccagctaa    180
atattattcc aagtctttac tatttcttgg agcatgaaca atttcagttc ttgatgagac    240
actaccctgg cctgaatcag ttctcttttc tgtccttggt tttggcacta tattaattca    300
aatttccttt aatcattaaa atccctgact aagtcctaac catactttat aaacactatt    360
gatagtatga tatttacctt ccgagtaatt ggggctaaca agttatagaa aatgtgaatg    420
acagtatcac ttaaagcacc tctgtgagat gagatacacc agaatgacag tcttggtcct    480
tctctttctg cttataactt atgtcttata gtatcctgat ct                                522

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```

<210>      12169
<211>      494
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220138d07d1

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<400> 12169

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gccttacaac ttttaacata tatatttcag aattcagaac tgagataata atggaattat 60
gaatattctt ggtacaagcg aagaagtctt tagtgcgatt ttcaaaccga aattctataa 120
taccatagta agaactaaga agcaacatgc aagttcagag gtaggaaaag taaagaatga 180
ctgctttctt ctcaaataag agtagcgaaa tccaaacaca aataagttca tgtaaagaga 240
atttcattgg tacatgaact ttataatatt aaacggggta agaactcatt gtgaccttga 300
atgaaataaa gaaatgacc ttatgcatat ttttgcaaat aagaagctat cgtcctatca 360
ctttccaatg ctttttgtct gtcagaagg tagtacaat gcctatactt cagggtttca 420
tcaccagctc cctgatataa tcaagaactt cctcgagatt cactgtccaa gcaactgcaa 480
caggagaata accc 494
```

<210> 12170

<211> 441

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138d08a1

<400> 12170

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gctcaaccac gatgacgcaa caagattcaa ccatgtcact aatctcactt acaactacgg 60
ttactcttgt catgcctcac actgtacaat cgtactgcgg aatcaaccac catcatcaat 120
gtgtggcccg aactcaggaa ccttacatgg tcccaccat accaaaccac cctgctctgc 180
tacacattca ccatgaccat caccaacaac caccacagca agcatctctc catcgccata 240
cggctctacc agaaccacat caaagttaga gcaccaccac gcacttgtcc cacatgcagt 300
caacatctcc aacatacacc taccaccact gcagactctc aaggtcacag tgggtggacac 360
tgctgaagaa ctcgtacacg ccgaggacga cactacact ctgtgcatac tgctgtctc 420
ataggctagc ctactgaaa a 441
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<210> 12171

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220138d08d1

<400> 12171

atagaagagt gttccagnga attccacatt ataagcaa at gaaatagcca gaatatcggg 60
 caaatccaaa taatgctgca ttgtcacata gtctacataa cctgggaaac taacagcaat 120
 caaatatggt cgccatttgg aattggaatt tgaatacaaa tacagtgc at caataatata 180
 accctatgta cacagccaat atctgactga aatttgatac agaatagtat caatttgtat 240
 cataataaaa tggcacagag aaatttatgt gaaggtaaag gggaagtgtg tcagctgggtg 300
 ttataattct tgggttttca ttacttcat cattggctcc ttctgcacg ttcacatttc 360
 ctttatctgc ttaagcactg ctgacctgt tttacgccc aaaggcca tgg 413

<210> 12172

<211> 555

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220138d09a1

<400> 12172

cttccaaatg atgcacttct tatttataaa aatttaggtt aaatttaaaa ggataaaaag 60
 aagagaggga aagagagagg aacaaggggt cttggggcag ggtctagtgc ttataaatac 120
 tctggcatta gccactagct ttcacaaact gaggcacaca aaaaaatggg ttcttcttct 180
 tccatatgga ccgtgtgttt gatatttgga tcaactggct ctgcagcact ctgtgccaac 240
 cctcgtagac cagtggatgt acaatttggc cgaaactacg tgcccacatg ggcctttgat 300
 cacatcaaat acttcaatgg aggttctgac attcagcttc atcttgacaa gtacactggg 360
 actggcttcc agtccaaagg gtcatacttg ttgggtcact tcagcatgta cataaagatg 420
 gttcctggag attcagctgg cacagtcact gctttctata tatcttccca aaatgcggag 480
 cagcagaga tagactctga gttcttgggg aacagaacag gacaacctta cattntgcaa 540
 acaaatgttt tcaca 555

<210> 12173

<211> 445

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138d09d1

<400> 12173

cttaacaata tcataatatc cctgaaagag ggaagggatc tattaagttc caaggcaaat 60
 aactacaaca cactaattaa gaaacaacaa atgacaaatc gagcttgccc ggagaaacaa 120
 accctagcag tagcacacac ataatttaga tttattcatg gtttacctca ggataaacac 180
 gctttatcct tacgtcctta atggaaacag gcttgatcc atatatggga gccagtgtga 240
 cagaaatact atcatcgtct ttgagttact cccaaggctt tgaactgata cgtaaaggc 300
 aatttgaaag aagctcagga gatgttggtta tgggtgacat gcggagagtg aggcaaagtc 360
 acaaagcttt cccgaaaact ctgaatcgtg ggggtccaatc tcattattgg cttgggtcgtt 420
 gatgaacaca tcaaacctta cacca 445

<210> 12174

<211> 577

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138d10a1

<400> 12174

gagagagaga gagagggaga gatcactgct cctgaactat aagctatata gcacttggat 60
 aatcttaca caatggaggg gaccagcagc caaagcacgt gtgccttcat ccctagcaca 120
 atcgagacac caagtccaag catccctgag atatcatcat gatcttacc tggctctctt 180
 gcaagaattg cacaaagtta ccctaacggc ttttccagaa aggtgtagc ggagattata 240
 gggacatddd agttgggtgtt tgtgggaagt ggttctgctg ggctaagcaa gattgatgag 300
 aggatgggtgt caaagcttgg agcatcactt gcaggaggac tcatagtac ggtcatgata 360
 tactcaattg gacacatatc aggggcacac atgaattccg aggattctct tgctatcacc 420
 gccggcaggc atcttgcttg gccacagttc ccattttata tagcagctca actcactggg 480
 gccatttctg cttcatacac attgcgagag ctgctacgac catcacatga gattggagga 540
 gcatcacctg ctggatcaca cattcaagct ctaatca 577

<210> 12175

<211> 531

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138d11a1

<400> 12175

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cccaacacaa gtaacgaaga agtcatttgt atctcgcaag tttcgatccc cagaaggaaa   60
ataattatgc acgaaattag agaccctgca attcggctct tcggtcagaa gatccctttt   120
cctgaagatg ttgacaaaga agaagagagt gctgaggata gagaacaaga gatggaagaa   180
catgaagacg aacgatacaa ggataactaga gatgaaaatg ttactaatga agagctagaa   240
gctgatcctc ctctagatgc tgaagagact aagatttcag gcacattcca tgaggctatc   300
gtgaacccca aaacaccttc catagaagaa gagacagcca aatcaaacgg tggcatatca   360
tagaaggaac aaggcgatgc agtcaactca caagagaaaa ccctgaagaa gcctgataaa   420
gtgctaccat gccccgggtg gcaaagcatg gacacttaat tctgttacta caacaactac   480
aatgtcaacc agccgcgtta tttctgctaa gcctgtctaa gatactggac t             531

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<210> 12176

<211> 236

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138d12a1

<400> 12176

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gaagagagac gagcagtcaa aaaccatcac aaggggcaac cacacgacag cggacacgga   60
caaagtctca ggccacaaca gggacgccga acacgaggac gagcagcgcc aaagaggcga   120
acacctaggg gagcagcctg gcgaccacaa tgctgcagcc actggacagc atcaagctga   180
tgagcacact cctcagcacc aaggaggcta agagcacaaa gacgggtcgc gagaca       236

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<210> 12177

<211> 539

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138e01a1

<400> 12177

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cttcaaaaca ctcataactt atagcacaat gcttagctca tccttgagtt aaaaaatggc   60

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aaaaaaacta gtaaagggtg ttttagtatt ggagagagga catagttgtc gacaaacaca 60
 aacagtgtag cttagcaaat ctgtgtttgt tgtgagcgac gactcttgtg cgagtgaag 120
 cagcagcaat aatggtgacg acgatgaatc ttcctctgca cacttcggtt tgggtaaagt 180
 cccggcggag ttggtgttgc tacgcctcac ttctgcagcc cgataggaaa gagatccgtc 240
 tcggtttgcc cagcaaaggt cgcagtgcg ctgacaccct ccaacttctc cagaattgtc 300
 aattgtcagt gaagcaggtc aatcctcgac agtatgttgc tgaaattcct cagctatcca 360
 acctcgacgt ttggtttcag aggcccaaag acatagtaag aaaattgtta tctggagatc 420
 ttgaccttgg tattgtggga ctcgatactt tcagtgaaca tggccagggt aatgatgatc 480
 ttatcatt 488

<210> 12180
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220138e02d1
 <400> 12180

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 ccagtgttat gaagagaacg aaaggaaaaa gatacaggct ttctacaaa atttcaatct 120
 ataaagcgat gtggaaatag gagttcctct atgaataatg agctaaaaat gcaatttcag 180
 ttatctacgt cctccatttt ggtgtacttg gcttttgcag ctttcacat agatttaatg 240
 ctcatctact tcgacagtat ctgaaaaacg aaacatcccc taatgactcc attgattgat 300
 cataaatggc tatagcccaa gtttagatag gagctgacgc catcttggag tttcttcac 360
 aaaaatatag gtcaagggtg atataagaac tccactgcct ccaatcgctc tcagttgttg 420
 tatagacttg tatagtgcct tctgaggcac acatatgact atggcataat agtctgctgt 480
 taccttcca tcacgcttgc agaaaaca 508

<210> 12181
 <211> 488
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220138e03a1

[illegible]

<210>	12182
<211>	470
<212>	DNA
<213>	Glycine max
<223>	Clone ID: jC-gmf102220138e03d1

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tagcagtaca	aacagtagtc	tctttgattg	cataccaagt	ctgtactttt	acttaatcat	120
acaaagggtat	taaatgttca	tgcaaagtct	acaaagcacc	tttaagggga	tagataccac	180
aaccattttt	attcaccaac	aaagggtctc	tcactctcaa	cacgctccct	ttacttcccc	240
aagaagatga	tgatccactt	tccaagctta	cgcttcacgg	aaaatctgcc	aaaaccacac	300
agctggcaca	ccaaaaccta	ctacctattt	tgcacattca	ttccttgctg	gaatcttgct	360
tatgctgctg	aaccagcttg	ttcacatagg	tccaacagat	ccagagtctc	tggaactgac	420
agctcaagac	gaaactttgg	cccatcataa	tgatgcaata	ctggcctgaa		470

5576

<400> 12183

ggctgttgcg agctataagc tagatcctcc tgaggagaat atgaagacgt ccgctcgggg 60
 ggatgctgca ggcgttcttg cggcattggc atgccatggc gcaggctacc aaagggtccc 120
 tctgcgaatg aaaactggct atggtgagcg ttcttcggag gtaaaatgcy catgtttaag 180
 gcttgctgcy gaagcacaca acatccgagc ctttaaaacc attcctgaag agggcgtaga 240
 accaaccag gactacatta acggcgaaca atttagatca gactctaaaa cagctaacca 300
 acaagctatc ttttatgcta gtgaacgcy agtccatcac aacgacatat gtatatgcyg 360
 catagataac accgcactct ctaatatccc atactatgaa aaacatggat atggggcgga 420
 ggaatttaat gaaaccttat atgacgaatg ggtaacaag ggcgacgcac cggcattgcc 480
 agagactctt aaaaactaca acaag 505

<210> 12184

<211> 631

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220138e04d1

<400> 12184

nggaggggag gggttgagct tgnagtatnc tnattnnggg ttaaanccag ctaccagtgc 60
 gcggccgccc tttttttttt tttttaaatt caaaacctat agttttatta attagcagat 120
 gttctcatcg ttaaagggtca acatcttata gactacttat accaccaatc tactttcaaa 180
 atactgagac atctaaaggc cacacatgca aagagttgga gaatcatggt ggcttctaca 240
 aacttgcyaa agagttcgcc acatcaatca caaagcgata tttcacatca gctttgctaa 300
 gcctttccat ggctgtgttg atctgatcca tcttaatcag ctcaatatct gcagttatgt 360
 tgtgctttgc gcagaaatca agcatttcct gagtttcttt gatccctcca aagttgctcc 420
 cccctataag tttccgtcct gcaactaatg gaaagatagg aagctcaagg ggcttggttag 480
 gcaaccctac agtaactagc ttoccatcca gcttcagcag accaagcagt ggaatcaggg 540
 aatgaacagc agaaattgtg tctatgatat agtccatggt tcccaaagcc accttcattt 600
 ttgcagggtc tgatgaaaca aggaagaat c 631

<210> 12185
 <211> 571
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138e05a1

<400> 12185

gagcgagcga gcgagcagtt tcaaataagag gatttgggat tgggaaggcg agggattgcg 60
 ctgcgtctct tctctttctc ttctgattca tccctcattc ataattcttc aatccaacaa 120
 cctcagcctc acactcacac atacacacat ctgaacgcgt atcgccctc ccatggcttc 180
 aaagcgcac ctcaaggagc tcaaggactt gcagaaagac ccaccaactt cttgcagcgc 240
 tgggtccagta gctgaggaca tgttcattg gcaagcaacg attatgggtc ctgctgatat 300
 tccttatgct ggaggtgtat tcctagtcac tattcacttt cctccggatt atcctttcaa 360
 acctccaag gttgccttta ggactaaagc gtttcatccg aacatcaaca gcaatggtag 420
 catttgcttt gatatactta aggagcagtg gagccctgca ctcaccatct ctaaggtagt 480
 gctgtctatc tgctcattgc tgactgatcc aaatcctgat gatccacttg atcctgatat 540
 cgctcacatg taccaaactg accgggcca g 571

<210> 12186
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138e05d1

<400> 12186

tttntttttt tttttttttt tttccttttt tatgttggtc tttttttgct ggggggttggg 60
 tttttttctt taaaaggtag acccaaattc cccatttttg aaccgggggt aaaaatttgc 120
 taaaaatttg gaacaccccc ccccttgggc cccccccat caaaagtggg gtttggcccc 180
 cgcccttttt atcttttatt ggggaaaaaa cctgggggga ggcttggggg gccccccccc 240
 aaaaaagggg gcccttatta taggcggggg gggggctcca gaaatcccc cgcgtgcctt 300
 ggggggaaac atctacgtcc cgctcgcccc gaaaattgct ccggggcgccc atacaagcgg 360
 ggggggcttt ggcccccaaa 380

<210> 12187
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138e06a1

<400> 12187

cgcgggcgtca cccaccgaga cctcatgccg gagaatctcc tcttagacca aaacgaagac 60
 ctcaaagtct ccgacttcgg actctccacg ctgccggagc atcgccgcgc cgacggcatg 120
 ctcgtaaccc cgtgtgggac ccctgcttac gttgcacccg aggtcttaaa gaaaaaaggt 180
 tacgacgggtt caaaggccga tttatggccc tgtggggtaa tcctcttcgc tttgctttgt 240
 ggctattttac ccttacaagg tgagaacgtt atgagaattt accgaagggc tttcagagct 300
 gaatatgaat tcccagaatg gatttctccg cagggcagga atcttatttc gaatctcttc 360
 gatgctgac ctaggcaagag gtattccatt cctgatataa cgagggaccc ttgggtttcaa 420
 gttgggttca tgaagccctt cgcgttttct attaaggagg cttacgttgt agacaacatt 480
 gatttcgacg atgtg 495

<210> 12188
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138e06d1

<400> 12188

ccccctccc ccccggggcc cgggttcccc ccctgggggg ccccccccc cgggttttcc 60
 ctctcttcc ttggcccccc ccttggttnt ggggggtcng cccccctccc cgggggncaa 120
 agntttgtct tccggtctct ttttttgccc gggccccccc cccctcttt tttttaaaaa 180
 cccctcccc cccggggggg ggccccccct ctataaaata aataaaaggg ttggggcccc 240
 ctttgttcct tatagacggg gcccccccc cccccccagg ggtaaaccaa aaacaccggg 300
 gggattccct tgggtcccaa cccccccca caaccttgaa agggcccccc 350

<210> 12189

<211> 549
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220138e07a1

<400> 12189

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cttctcatta acacactacg cgtgctagaa cctctgctct cctcttgctt ttgatagaga   60
agaatgaagc gagaagatgt cagacgcggt ctgcagcgac tgcaagaggc agacggaggt  120
gggtgtttgac cactctgccg ggcacacggt gtgctcggag tgcggcctcg tactggagtc  180
ccactctatc gacgagacct ctgagtggcg taccttcgcc aacgagtccg gtgacaacga  240
tcccaatcgt gtcggcgggc cctccaaccc cctcctcacc gacggcggcc tctccaccgt  300
catcgccaag cccaacggcg gcgagggtgg cggcgagttc ctctactcct tcctcggtcg  360
ctggcagaac cgcggtcca accctgatcg cgccctcatc atcgacttca agaccatcgc  420
caccatgtcc gacaggttgg gactcgttgc gaccatcaag gatcgggcaa atgagatata  480
taagagggtt gaagatcaaa agtctagtag aggaagaaat caagatgctt tattggctgc  540
ttgtctcta                                     .                               549

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<210> 12190
 <211> 341
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220138e07d1

<400> 12190

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caaccttggc gggggcccgga tccccctttg ggcctttttt gggaaccag caccacagct  180
ttttcccccg ggggggggatc caaaaaaagg ggtttagggg ctgggaccaa aaaaaaagg  240
ggggccaacc ccgggaaacg ggaccctttt tcctcccaac aaccccaaaa ttttgcgggg  300
gggggccgaa gtttcccttt ggggctttct ttttcttga a                                     341

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<210> 12191
 <211> 144
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220138e08a1

<400> 12191

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ggagtgatag ggcttatcgc catggtgttt caattcaaaa gtctgaagtt tctttgtctt 120
tgatttcatg aagatgacat ataa 144

<210> 12192

<211> 122

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220138e08d1

<400> 12192

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cccaggaaag gaagacacat atttcctttt tctccatttc tgcactttgg ggcgaacttg 120
ag 122

<210> 12193

<211> 404

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220138e09a1

<400> 12193

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tcaaaagggc taatcgtgct cgtttatatc taaatagccg tagctatgtc aagactttgt 120
gcatgcgtgt agtacttgct catgaatttt gagtgcattc ttttcatcaa gctgagacta 180
gaagatcctg gtgaacattc aagttcatgt gctaaaaacc tgctcctgat gattaagcat 240
gcaacggaca tctgtacacg catggaacat ggaccttgag catctccaag acgccttgac 300
catgaaagac atactacgtc gctggaaacc tactgggcgc cgaacatgtc tacggaagct 360
gtcacgtcaa gcatgctatg tacgggcaca atttatctcc tgtg 404

<210> 12194
 <211> 478
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220138e09d1

<400> 12194

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 ccccccccca gggggggggg aaaaaacccc cccccccccc ttggggaacc ccctattttt 180
 tttttttggg gggaaaaacc cccccccccc tattggaaaa acccctggtt tctcccaaaa 240
 aggccccggg ggggccccaa aagggggggac cccggggggg gccccccctg gccaaaaacc 300
 ccctttgggg ccccatcctt ttaaaaaagg cagcgaaccc cctttcttaa acaaaactcc 360
 cattggtgga aaaggggggg gccccgcgag ggcttttcca tcccccca aaccccggat 420
 tttgtgttg gggccccccg ggggggggaa aaaaaaaaaa cctccccccc cccccggg 478

<210> 12195
 <211> 360
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220138e10a1

<400> 12195

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 ctacatgagg agtgagacat gatgctgttg atcgttacca ccctgttcaa cacagttggt 120
 cgcgatgaat gaactgacgc acctgctggt gggactcaaa gctgctggat ctacttccat 180
 cgtgtcccat ctcatccttg gcctgattgc acacaacgta cccaccatca catacaatgg 240
 ttcgactgac gactgcaata tcactttcca atctgtgtgc aatggagggg gactggacaa 300
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<210> 12196
 <211> 502
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220138e11a1

<400> 12196

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 gttcggcggg caatacaaca atgaggtggc atgagccagt tggaggctag gcgcggaagc 180
 aaacaacgta gtcaagcggc taactgggtc tgcaacttgc ggagagtaca tcaactgacta 240
 cgggccagga gaccaatgta gactagattc caaaacagtt aaccaacaag cttatttact 300
 atgctaaatt cctcaaactc accaacaag atgtctttgt ctccggacgta gacgacacta 360
 ctctatgtaa tctccagtat ttagctaacc atggattagg agtggaacca cacaatacga 420
 cggcgttcaa gaactgggtt cttgatggcg aagcattcgc actgccagag actcttaaga 480
 tgtacaacaa ctgttggtc tc 502

<210> 12197

<211> 397

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138e12a1

<400> 12197

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 acaaagtctg aggctccgac tatgattccg aacacaaggg cttgccctgc aaaggtgacc 120
 tacacctcaa gtccttctt ggtgaccacg gtaccgcatt cactggctat catcaagctt 180
 ctgtgcagac tactcatgac catataggct aagagcacac gtgagactag ctaggcgaca 240
 catacgtctc tacaccccaa gcaggttctt cgttggaccg gcaaccaga acaaccatta 300
 catctatggt tctagccac catggacatc gacacatact ccgtacaatg gactactgca 360
 atcatactat tctctgcgga cggtaaccct atatggg 397

<210> 12198

<211> 523

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138f01a1

<400> 12198

ggtagaccaa ggtaggttat ttgccatggt cattggtggt gaagtggaag agaccgtgag 60
 agagttgagg caatacttca aaactggaaa aaccaagagt gtgacatgga ggaaaaacca 120
 gctcacagct ctcttagacc ttgttcatga gaatgaagat gctatattta aggccctcca 180
 tcaagatctt gggaagcacc ctgttgaggc ttaccgtgat gaggttgag gaggtagaaaa 240
 atccgccagc aatgctttga gctgcgttga gaaatggatg gcccttaaaa agagtgatat 300
 cccttttctt ttcttcccag cttaaaggaga agtgttgtca gaaccacttg gtgtggttct 360
 catattttct tcttggaact tcccaatcat actgacattg gatccaataa ttggggcaat 420
 atctgctgga aatgtttag tcataaaacc ttcagagcaa tctccagcaa gctcttcttt 480
 tcttgccact accatttctc gctacttgga ctctaagcc atc 523

<210> 12199
 <211> 510
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220138f01d1

<400> 12199

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 gccacacggg tggacaaatg caggtgaaag cgaagttaaa aatgtttgac attgtctggt 120
 ctgttgagaca ttagaagtaa aaacatccta ttactagcaa gaaaaataag agatacaaag 180
 gttcgtttat tacaacgcca agttaaagtt caccacatgt gcaacttctg caaataagga 240
 ccctttctcc tattttccta caactcatat tcagtcacaa taaagcttaa ttctttttta 300
 atcaacgtgt atttgaggaa tagatgaaca ctgtgctgag gtatttatct acttggatct 360
 tttcaagccc agcatgtgca gtaatagtcc aaagtagttc agcctgtatg ccaatctgat 420
 aaactcgagc ttgaacttac tccaaggagg gtaccttggc tcaatttaag gaacagcttt 480
 ctatgcatta cagctttttc atggctgaaa 510

<210> 12200
 <211> 78
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220138f02d1

<400> 12200

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caatnnnggg ttaacggc 78

<210> 12201
<211> 489
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220138f03a1

<400> 12201

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gggctccttg attgttccag gtgaacatga tcacaaacta aagcttggtt ctcttcctt 120
tgtatcaacc agtcacctca ttcccgtagt agacatagct aggctctttg ccattcatgg 180
tgttgatgtc accataatca ccaccacagc cactgccgcc attttccaaa gctctatcga 240
tcgcgaccgt gaccgcgggc acgctattag aaccacggt gtcaagttcc catgtgaaca 300
agttgggttg ccagaaggag tagagagctt caactccaac actcctcggg atttgggtcca 360
caaaatctac cagggactca ccattctcca agaccaatac caacaactct tccatgactt 420
gcagcctgat ttcttggtca ccgacatgtt ctacccttg actgtggatg ctgctgctaa 480
gttggaat 489

<210> 12202
<211> 504
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220138f03d1

<400> 12202

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aagaagtgtc cagttgcaaa atctttcaaa tcattggatc aactactct aatttaacca 120
aaaacataca aacacttaga attcttttat ttcataagta gtacaattac taggtaacaa 180
tactattata ttccacacta tttttgaatg aggcatgtca cttatttaga atcacagtgc 240

tatgtcctga attgattgca attatcccca agagttggcc taacttttgt ggttggcctt 300
 ctgcagtttg agtgacttca actcctggat cagttctttc aaattgttgt gagaagaccc 360
 tccaacctga atagctttct tagcagcatc actaagtgct tttgctcttc tcctcatttc 420
 tatagactct tcaccaccca tcaaaacacc aattgcattt cctatctctt ccctttttac 480
 cacctcatct tcaaactcat tcca 504

<210> 12203
 <211> 435
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138f04a1

<400> 12203
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 ccaagtatta tatttggata ttattataaaa tcaccttttg ggggagaagg gtggattggt 120
 agtgtggacg atttgggaaga tataattggg gggcatgtat ggttgggtta catttgtata 180
 cttggtggaa tctgtcatat gttaaccaat ccttttgcac gggctctgag tgcacttgta 240
 tggcctggag aagctctctt atcttatagt ataggtgctt tatctgtccg tggttatatt 300
 gcttggagct aagactgggt aaattatacc gcttataccta gtgagttgta caggcccaact 360
 gggccaaaag ctcttcaagc ttaagcattc acttttatag ttagagacca acgtcttggg 420
 gctaattgtag gatct 435

<210> 12204
 <211> 345
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138f04d1

<400> 12204
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 gattaacaag ggggttttaa aggccctaac caacaggggt ggggtgcctc ccccgaaacta 120
 ccagccaaa aagacttttg gcaaggggca attaaacccc ccccgaaacc ctgctttttt 180
 ccccggggtt ggggcctcca caagatcttg gccccgattc aaaaagtttt tcaatttttg 240

gggcccattt tatgaaaccc cgggtccaaa aattggccct aggattctta atccgctcaa 300
 taaaagtaat ggggggcccc ccgggggggg ggcgggtaac aattg 345

<210> 12205
 <211> 536
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138f05a1

<400> 12205

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 tagctggtgg tgccggagag aaaccattc cacttggtga gaacgttctg cagaagcatg 180
 ctgcattctt tgacttgaat aaagatggtg tcatctaccc atgggagact tttaaagggg 240
 tgcgtgaaat cgggactggg gttttgctgt ccgttgaggg tgctattttc atcaatgcgt 300
 ttctcagtca gagtactcgt cccggaaagt ttccatctat actttttcca attgaaatta 360
 aaaatatcca acgcggcata cacggcagtg aactggagt ctacgatact gaaggaaggg 420
 ttgtaccttc aaaatttgaa gaaattttta acaagcatgc acatacacat gcaaatgctt 480
 tgacatatga tgagttaacg gagactgata agggcaatag agagcctaaa gatttc 536

<210> 12206
 <211> 281
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138f05d1

<400> 12206

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 gggttttggg gcccccccc ccctcccttg gggggccttt ccccccccg gtggggcccc 120
 cttttgggtg gggggtttcc cccccccctt ttcccttttg ggggggcccc cccctccct 180
 ttttgctggg gggggggggg gcccccccc ttggtcccc cggggtgtgg gggcttnngg 240
 gcccccttt cccctctggg ggcccccccc cgcccccccc c 281

<210> 12207
 <211> 530
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138f06d1

<400> 12207

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 aaggagagag gagaaaatta tgaacaaaac gattttaagca aaaaacaaaa aaaaaaaaga 120
 aaatcctaca tctcaaaatg cagggttaat cttttaccca aattatcaac atgactgtag 180
 caaaacagga ccaactgata aactaagcat atcgctgaga gcaacctgga gatcctttga 240
 cccatgttca caacgtacca agctggagat gagaggggaag aaatgagaca gggttcttctc 300
 aaaagaagta tctcccaaac tacaaatagc ctgaatagta gccacaatga gaggnccgatc 360
 gtgctgccaa ttctctcttc ttcccagtgc ctaagggaat tgaccaatgt tgctgtctac 420
 catgagaaga ttcagatttt tgtccaaaac ctgcaacttc aatataaaac tccaaaacct 480
 cctgacaaag ccgaatgaga tgcaattcaa cctcatccgc ctcgtaacta 530

<210> 12208
 <211> 178
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138f07a1

<400> 12208

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 ttaataaagc aaaatgcaca cataccccaa acaaaacaag ccttattcaa tactaaaatt 120
 tgtgcttctt tctgcctttt caatacatca aagaaaataa aaaaattcct acccatct 178

<210> 12209
 <211> 455
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138f07d1

<400> 12209

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 tagaaccttc cagaagaact actaacgggg attcattggt tcaaataat gtacacatcg 120
 aattaagggg aataagcaac ttcaaacaaa catcacctca ctgcacatgg aacgggttttc 180
 tcggggtagt agatgctcga ttttccattg attgcaatct ctgtttgaga tgaaaaactt 240
 catactgtag ttggaatgct cttgctcttt ctctgcaat aactcctctt gttgagtgc 300
 actccttctg tgtatcatct aaaacagcct tgaggaaggc cacattatgc tcaagccgta 360
 cattgtcaga gtgcacaatg tttgataggt tgttggcctc ttcttggggc aactctagac 420
 tggtcagctt ctctctcatc aattccatct cctta 455

<210> 12210
 <211> 529
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220133f08a1
 <400> 12210

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 gcatatactc attctcgggg gttgcacgtg tacacgctcc ccgatctgga ttacgactat 180
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 cagacttaca tcaccaactt caacaagggc ctcgagcagc tccaagacgc cgtcgccaag 300
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 cccaaggggt cactgggatg ggccattgac acacattctg gctcttttga agcattagt 480
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<210> 12211
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138f08d1

002200"ETTESO

<400> 12211

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tccaaatatt acattcatac tttgacatgc tgggggttggg cctccacaac attggttcat 180
caaaggtttc tacaccaacc gcacgtccaa ggatttggag ctggttctat aatctgacta 240
taaaccaaaa acttaactat cgacacctcc ttctgatcc tggccatatg cttctagcat 300
gaaagcactt aaattcccat cttattcatc cgaagcaaac tctcattgag aatggttcca 360
aggaattcca agaccacacc aaactcccca ttcaacaaa ctagatgaac tttggtgaag 420
gaagaaa 427

<210> 12212

<211> 562

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138f09a1

<400> 12212

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tctttaagct cctgcttcat tctgctcttt caagaaagga gtgccttggt ggcagtgaag 180
cagaattgga agagaagttg gatgaagggt ctaaggtttt caagagggat gtgatgaata 240
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gtgtttctgt ttctcagggt ttgtcttata gagatgccct aggatgtact gtcttgcag 360
cagcagctgc aagaggccag gttgaggtgg tgagaaatct aattgaatcc tatgatatca 420
tcaactcagc taatgctcaa agcaatacag cattacatgt ggcctcttac aaagttactt 480
accctggtga gagattctgg ttggagcatc tgcttgtta gcaacgttaa ccaatcacta 540
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<210> 12213

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220138f09d1

<400> 12213

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tcaaaaagga aaagtcatac acaaagtgtg caaaatatat ttcaaaagaa atacaaaatc 180
tttaatcaca ttcgcagggg ggagagaatt ctaggacagc ctcagtgcc a tttcatgaag 240
aagagctcgc ttttgagaag cattaattac attatgtgtt tcagcattct caagcattc 300
agcaattatt gcagatgcag ggccaagggg ttcctcagcc accctcttca acatgaaagc 360
ctggccatga tgggttatgt taattgtgca gggttgctga aa 402

<210> 12214
<211> 563
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220138f10a1

<400> 12214

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tgtgatgaac atgggattga tgccactgga aattacgtag gcaattccca tcttcaactt 180
gagaggggta acgtgtacta caatgaagca agtggaggac gctatgttcc tcgagctgtg 240
cttatggacc ttgaaccagg gaccatggat agcttgcgtt ctggctcctt tggaaaaata 300
ttcagacctg ataatttcgt gttcggccaa aatggagctg gtaacaactg ggctaaaggg 360
cattatactg agggagctga gcttattgat tctgggtcttg atgttggtcg aaaagaagct 420
gagaactgtg actgcttgca ggggttccaa atctgtcact cactgggagg aggaactggg 480
tctggaatgg gtaccttgct tatctcaaag atcagagaag agtatccgga taggatgatg 540
ttgacattct cagtgttccc gtc 563

<210> 12215
<211> 500
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220138f11a1

<400> 12215

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aagaccatga ccatgggtcat ggtcacgata ctgctcctgt tcacgggtctt cgcgggtttca 120
tcggccctag acatgtcgat catctcgta cacaacgccc acgcccgcac gttgcgcagc 180
gactaggagc tgatgtccat gtacgagcag cggctcgtaa agcacggctc ggtgtacaac 240
gcgctcggag agaaggagaa gaggttccag atcttcaagg actacctgcg attcatcgac 300
gaccacaact cccaagagga ccgaacctac aagctcggac tgaaccgggt cgcggatctg 360
accaacgagg agtacagggc caagtacttg ggaaccatga tcgatcccta ccggaggctc 420
ggcatgaccc cgatcaaccg atactcgcca cgtgtcggcg acatactacc tgaatcggct 480
gattggatga ggaaggtgct 500

<210> 12216

<211> 469

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138f12a1

<400> 12216

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aacactcaaa caatgggggac aagaaagagc ctcaattctt gttccctcct gaaggtaatt 180
cacattttcc tggctttggg ggagtagggg tgccaccttt ctttggggtg acacctcaaa 240
acccaaacac tggcggcagc ggactaaggc tatgaccagc tggatcatggc tacgttccag 300
gaggggatga cacgttcgta ccataccctg gcttcgaggt tccaaaccct gggagtggag 360
atggagaccc agttccagtt acagattata cgtgagtgct ctcaatcatg atgaggcatc 420
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<210> 12217

<211> 509

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138g01a1

<400> 12217

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 ggagactcaa cagcaccaaa ctctcaacg cctcctccaa actcctcttc cgtgccacta 120
 tcttagtcgc actcatcctc gtcttctctc tcaccttcaa ctacctccc ctgccccag 180
 acttcacctc ccaccgccac ctccactccc actcccactt cctctcctcc tcctcctcct 240
 tcgcctcctg ggagaagcag gtccgccact cctccacccc tcgccgcccc aacggcctca 300
 ccgtcctcgt caccggcgcc gctggcttcg tcggcagcca ctgctccctt gccctcaaaa 360
 aacgcggcga cggcgttctc gggctcgaca acttcaacag ctactacgat ccctccctga 420
 aacgctcccg tcaggcaatg ctctggaaac accaggtttt catcgtgaag gtgaccttaa 480
 cgacaccnc ttgcttgaga agctcttcg 509

<210> 12218
 <211> 492
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138g01d1

<400> 12218

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 tttctggggt tcttgaaaa acaaaaacaa gggcctgggg ggggaggata attaaggctt 120
 gggtagctac ctaggggatt attcattggc aaggggatat tcctttttta gcctttgctg 180
 ggggccggaa taaccgaggg accacttgac gaacttcctg agaccggggg cgaaatcggg 240
 ggggggattg gaaaaaaaaat ccctgtaggc caagctgaca ttggcgtgtg ggaagggaac 300
 ctccccgttt gatggcatct taatgacggg cttcttggcc ttggggctta gcagaccttc 360
 cagaatggac accaagggcc caaccggcac cggatgaagtg ttccccagat tggatactct 420
 gagctgggcy gggcccttct tcttgccgcc gctcccggag cttttttggg cgggggtccag 480
 ggctcccagg ca 492

<210> 12219
 <211> 541
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138g02a1

<400> 12219

gcctgtgccg tgtggtgttg tgtttttttt ttttgtttca tctccatctt tttcttcaaa 60
 tttcccagaa gagaaactca caaagatgag gttatcattg aggcattgctt tgggtgtttgc 120
 gttaattggg gcgttgtgga acttgcagag ggcagagggt atccgatttg tgatagacag 180
 agacgagtgt ttctcccatg acgtaaagta cgagggtgac actgttcatg tctctttcgt 240
 tgttattaag gctgattctc cctggcatta cggcgacgaa ggtgtcgatc tctgtgtaaa 300
 gggaccttct ggcgagcaaa tacaagattt tccggacaag accagtgaga agttcgattt 360
 tgtggctcac aaatccgggg tccataaatt ctgcttcacc aacaagtctc cttatcatga 420
 aactgttgat tttgatgtac atgttgggtca cttctcttac tttgagcaac atgccaaaga 480
 tgagcatttc acccctttgc tggagcaaaa ttggaagttg gagggaagct ctatacaaca 540
 t 541

<210> 12220
 <211> 549
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138g02d1

<400> 12220

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 gattgaacaa ctagttatat aaatatccat gtgatgacaa cggaaaaaag tttaaaataa 180
 cattctcatt tgtactgtta cagattcgca gaacctttcg tagctctaaa ctctcgaggt 240
 acccaacttt cgttcaaaca atcgctgcag aaggtagact tgcagcgac tagccccaat 300
 cagtgtgctt gattcaaaaa ttgccttggt tactgtctct ctgctcattg catcgttcac 360
 tattgcttgg cggtcagtct gagcctctaa ccaatgctgt tcaaactgaa tgttgtatag 420

agcttctctcc aacttcccaa tctgctccag caaaggggggt gaaatgctca tcttttgcag 480
gttgttcaca gtaagagaag tgaccaacat gtacatcaaa atcaacagtt tcatgataag 540
gagacttgt 549

<210> 12221
<211> 494
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220138g03a1

<400> 12221

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ttatagcctg aaataagggt tctactagcaa tggcctcaac ctcttctgct ctcactatat 120
cctcttcttc cacccttcat gattgcaagg ctccaagaca gtcaccagct gcttcaccac 180
aatgtgtgag ccttccctct ccccttttgc actctcagaa ctgttcatgg aagaccactg 240
cttattgtcg cagtattgct cgaaatgtta tggcaatggc cacaggagag gcaccagctg 300
aagctgcccc gactgaggtg ccagagattg tcaagactct tcaagaaact tgggacaaag 360
ttgatgataa gtatgcagtg agttcactgg ccctgggttg tgtgggttgca ttgtggggct 420
cagttggggt gatctcaaca attgataggc ttcctttgat tcttgggatt cttgagattg 480
taggcattgg atac 494

<210> 12222
<211> 461
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220138g03d1

<400> 12222

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atcaatcact acacagataa tggaggaaat gagtttgtct taaaagtgga tcaatatata 120
taaaaagata caattttttc agaacttatt ccattacttg ggataaagta tggtcagaag 180
cttatggcaa caaatgaag catggggaca tcttcaacag gaagctgcaa gatatgacac 240
tttcatgtca acagcatctc agcatttcct aacactttca gttgctcccc agtatttcgt 300

tgtatgtttc ttttactttc cgtaccaaag cttccctgtc tggcttgaaa actatgttct 360
tatatacaaa ccaccagtg tatccaatgc ctacaatctc aagaatccca ggaatcaaag 420
gaagcctatc aattgctgag atcaacccaa ctgagcccca c 461

<210> 12223
<211> 579
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220138g04a1

<400> 12223

atcttcttat agcttcatcc caaatttctc ttttcttctt aaatttgatt ccttagttca 60
gcattctatt attatatatg gcttcttcac cttcctcaga aaacaaaaac ctagagggag 120
tagctggtgg tgccggagag aaaccattc cacttggtga gaacgttctg cagaagcatg 180
ctgcattctt tgacttgaat aaagatggtg tcatctaccc atgggagact tttaaagggg 240
tgcgatgaaat cgggactggg gttttgctgt ccgttggagg tgctattttc atcaatgtgt 300
ttctcagtca gagtactcgt cccggaaagt ttccatctat actttttcca attgaaatta 360
aaaatatcca acgcggcaaa cacggcagtg aactggagt ctacgatact gaaggaaggt 420
ttgtaccttc aaaatttgaa gaaattttta acaagcatgc acatacacat ccaaatgctt 480
tgacatatga tgagttaacg gagatgataa aggcaaatag agagcctaaa gatttctcag 540
gaaggattgg tagtgtggtt ggatggaaaa ttctttaca 579

<210> 12224
<211> 644
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220138g04d1

<400> 12224

aggggggagg acgggaatcg nnggtatact cattnnnggt aagggcgact acccgtcggc 60
ggccgccctt tttttttttt tttagtggta ggagctattt ttttattaca aaatgataag 120
accgagggtt tttattatta ttttttggtt gttttatatt ttaaggcaac aagcaaagct 180
ctccaatctg caagtgggaa catgaattat gccactcttc cattgatgtc aatcaatgag 240

tnccgggaaa ggctttttatt gctctacggg aacaccttaa ccggaaaatg ggaaaatttt 60
 ttttggcaca gtcattcctt accccccgcc ggcccccaaa aaaaatataa aaaaaaaaaac 120
 tcttttttgc acctaaaaat cttttggaag cgaacaaaat gaatgggagg gggctatgag 180
 gcaaaagtct atctcattgg ggtcccaaaa tcatgcaagc aaacttgact tcaccaactt 240
 aacaaagaat aacgaacgag gtggaacatg cagcgcctaa gacccttttag aggggctcca 300
 tcatcaactt ggtggggggg gcaccacttt caaacttggc atccattcac agaaactagg 360
 atcatcgaag ggaacaaaac tggctttcag cttt 394

<210> 12227
 <211> 325
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138g06a1

 <400> 12227

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 cctgtaaggc tgcggatatt ggggtgggag tgcacttatt caactagcag atttggttagg 120
 tacctccata gtaagagaca ggaacatgaa atcatcaaag tgtgtagcgg tggtagatat 180
 aaagcaggaa tggcatcacg atttcgcga gcacacaaga cagagcgctt acatcacata 240
 ctcaaaatgg tgagggtctt ttgtgccttt gcaatacctg atacaaaata aggtgcttac 300
 taccatgta actagaagaa acaag 325

<210> 12228
 <211> 480
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138g06d1

 <400> 12228

tttntttnnn nnnnggctgt ttgatattca catatttttag ggcagaataa atgttgaaat 60
 ttacattcta aatacaccat attttgtgtt ttgaatgtca cggttcaagg aggcagagat 120
 ggatagacca atgacttttc ttgtatccgc tggatcaatg attccatcat cccaaagcct 180

[illegible]

<223> Clone ID: jC-gmf102220138g07a1

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cttctggttc	tggagccgat	caagaaaacta	caaataaaga	tgtaataaag	atgctaagac	120
gcctagctca	gaatcgagag	gctgcccgga	aaagtaggct	gcggaaaaag	gcttatgtta	180
aacaattaga	atcaagccgt	ttgaagctca	tgcaattgga	gctggaaatt	gggaaagcaa	240
gaaagcaggg	tctgtatatg	ggcactgcat	tagatgccgg	ctatatagga	tcaacatcag	300
aaacaataaa	tccagggatt	gctgcttttg	aaattgaata	tggaacaatgg	gttgaagagc	360
aagaaaggcg	gaatgaagaa	cttagacatg	catttcaaac	acaagcacct	ggtgtacagc	420
tcaacgtagt	ggttcagagt	gtcttaaadc	attactcaaa	tcttttcaga	atgaaagcag	480
aagctgtaaa	ggctgatgtc	ctctatttac				510

<223> Clone ID: jC-gmf102220138g07d1

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tattttatatt tattttttcc accaggggtc ccccccttgg gatatttaca aaaacccccg 120
gccccaaacc ccaaagggat ctttttttgc gggggaaccc ccggcacccc cttaggaaca 180

aaggcctccc ttttaaaccg cggggggccat cccccgccaa agggaaaaaaa aaaattttcca 240
 ggttttaaaaa cccatgcccc aaatgccctt tttatccccg ggcccaattt cccccccgcc 300
 ccgaaggga aaaacccaaa aacttggcca aaaaaaccat ggcccaaata aaa 353

<210> 12231
 <211> 569
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138g08a1

<400> 12231

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 cataactgcc tttccagcgt cgaacatctg aaggatccat gttatgaaaa cccggcaaaa 120
 ccaacagtcc ttttttccca ttggcacagt caaggatagg ttgcaagttc atctaagcaa 180
 aatgaggaag aagcatagtt tatagagagc acaaatgcac aatgatggta atcttggact 240
 cttgaattgc gttcacaagt gttggtgtta tctctctctc tcttttaagc ttctcatgat 300
 caatgaaagt gtggattccc ctgtcactaa gagctttgta gagattacca aaaaaaccaa 360
 ggcgggtgtc tgagcctcta aagctgagga acacatcggt ggtgaatgca tctgaacttg 420
 atcgcaaagc catgagaata caggtagctt tgacgtgctg gagacttgcc cgcatagctt 480
 ggtatgaact ggtgttctac atttggagct atttcaatct cactttttat atgaaactca 540
 caggccttat tgatgggttg actctctga 569

<210> 12232
 <211> 357
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138g08d1

<400> 12232

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 gttttttttt tttccacca cgggtcccc ctttgggatt taataaaaaac caccgggccc 120
 caacacacaa aggatttctt ttttgcgggg gaacccccgg ccccccaaa aaaaaaaagg 180
 cctccctttt aattcctggg ggccatcccc cccccaaggä aaaaaaaaaa ttcccaggtt 240

taaaaccca tgcccaaaaa gcctttttta acccaggggc aaatttcccc cccccccga 300
 ggggaaaaaa cccaaaattt tgtccaaaaa aacctattgc ccaaaataaa acccccc 357

<210> 12233
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138g09a1

<400> 12233

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 tgggagaaaag cagcatcatc atctgggcca gcacctttta aacccccatc agcaggtagc 120
 acaagtgatg tagttgaggc ttcagggact gcaaaaacctg gcgaaatagt tccagcttcc 180
 gataagactg caactgtcaa taggaatgct cttgggagac cccttcccac aaggccatgg 240
 gagcagaata atggaagtac cagctatgga gggtatgggt ccacaatgaa ttataattct 300
 ggatatggat cttatgggtg agtggagngg ttgtatggcg gaggaatgta tggcagcagt 360
 atgtacaggg gaggatatgg gggcctctat ggttcctctg ngatgtatgg ag 412

<210> 12234
 <211> 546
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138g10a1

<400> 12234

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 gttcttgaac tcaccagct agctgaattc cgaaaaagcc cttttcttgt cccgaaatgc 120
 cgaacccctt ttcttcgct tagccaccac caaccgccc tgatccccg tttaagatga 180
 tcgtccgcac ctacggccgc cgcaaaggaa ccctctcggg aacgtattcg ggctcgtcct 240
 ctctaaacga cgacgtttcg gagccattca gggattcctt atctcaggag attgacgacc 300
 ctctctgcgg cttcgcgttc tctcccagg actcgtcctc gcagcattgg tccttcttcg 360
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gggcgaatcg ggcgccggcg gaggggattc cggcgacgtc gacgctgatg gagggcgang 480
 agttcggaga gatgatggag cacgttgacg aggtcaatth cgctctcgac ggtctccgca 540
 agggtc 546

<210> 12235
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220138g12a1
 <400> 12235

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 tacattcgta cataaatact tataatctcgt ttacttctgc cgctaattct ctgaatccct 120
 agctcttctg atctccgacg cgatcatggc ctcagcttct caacaacgct aacggcgccg 180
 tcaatgggtt tcttgaata tcccagaagc tcattatcga taccgaccct gggatcgatg 240
 atagcatggc cattctgatg gcttttcaaa gtccagacgt ggaggtgtct gggtttgaca 300
 accatttttg gtaatacaac taccgaactt gcaacactca aagctttgct tttgtgtgac 360
 atgtgatgcc gtgaagatat tccagctgca cagggaagcc atgagccatt gaaggtggaa 420
 aggctagtgt 430

<210> 12236
 <211> 265
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220138h01a1
 <400> 12236

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 ttatccatca tccaccacct aataacgtat gaataaacac accttcacca ttacaacacg 120
 taaattaaag agggatcatc aaatatgtgc acatacatag taccctcca atttcattag 180
 caaaaacaca ctttcattgt atgaaagtat atatgtaaat cccaaagctt cagtttcagc 240
 tatgaaaata aatattcttc gtgct 265

<210> 12237

<211> 266
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138h01d1

<400> 12237

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 tatttgatgt accctcttta atttacgtgt tgtaatgggg aaggggtgtt tattcatatg 180
 ttattagggg ggggatgatg gataaaaaga aaagagaaac agaagcgggt catcatatca 240
 gcatatttga tttggaaggc aatctc 266

<210> 12238
 <211> 500
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138h02a1

<400> 12238

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 tgacgaacag gaagcgcagc agcggggacg acgccgtttc ggagaatgac aganagcgga 180
 agaatatggt ggcacgcaac atggnaccog ctgaggcggtt ggccttgacg cggcacgagt 240
 tcgngagca cgggtggcgta aacatgtcga tcgaggcctc ggcgacgttc acggtgatgg 300
 agccggagac cctcggtcgc atgttcgccg gcgagctggg cccggaccgc gatttcttca 360
 ttacagccg ccacttcaac ccgacgggtt tcaacctggg ccgccacatg gccgccttg 420
 aaggcacgga ggccgcctac tgcacagcca gcggcatggc cgcgatctcc tcggtactcc 480
 tccagctctg tagcaccggc 500

<210> 12239
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220138h02d1

<223> Clone ID: jC-gmf102220138h03d1

<400> 12241

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 ggccgccctt tttttttttt tttagtggta ggagctatnt ttttattaca aaatgataag 120
 accgaggggtt ttggttatta ttttttggtt gttttatatt ttaaggcaac aagcaaagct 180
 ctccaatctg caagtgggaa catgaattat gccactcttc cattgatgtc aatcaatgag 240
 attcaggtgc tttctgctgg aacaggaacc tgactcaaaa catgaccaa gtttctgttt 300
 aagggttttg gcctccattc ggtcctgccc ctcaaatct cagcaccatc atcaagtcga 360
 agcaagtgtc tgcactcaaa aaatccatca tctgctaagt ttccaacatc agcaccggag 420
 agatcagaga gggaatctag cacactgttc ctgccacact ccctcctgta ctccaatgtc 480
 atggcacata gctcatggct cttcaaaagt ggctgcggag cactctccag aatccacccc 540
 acatacttca cattgttaac atgcntgatt cacatctaga tcatgcccat ttggggac 598

<210> 12242

<211> 456

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138h04a1

<400> 12242

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 agcagtagca atgggactta gatctctaaa gcagacaaat actcatagtg gacttagaat 180
 ttttaacccg gtggatgagc tacttaacag aacccaatt aaaaccaatg caatgcaagc 240
 tatgaggaag ggacctcaag gcaagaatgc ctggcctaaa ggtataatca catgtggcat 300
 gactttcata attataggaa cggaggtggc tccatggtgc aaaactggcg ggtaggaga 360
 tgttcttgga ggtctaccac cagcattggc aggtttcggg catcgagtaa tgactattgt 420
 gccacgctat gaccagttca aagatgcatg ggatac 456

<210> 12243

<211> 423

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138h04d1

<400> 12243

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caggcttgcg atcatcatca gcatgtggaa caatctttga ccaaaaccaa tgtgatctcc 180
agactgtatg catttcttca atggggatgt tctttgtctg aggcaacaac atggcaatga 240
agatgggtcat gatgagtaca aatgccgcaa agaagaagaa aaggccaaac ttcaagtgcg 300
aaagcatgac taggaaaact tgagcaatcg caaaagtga cagcatgttt acggcaacat 360
tgatggctgg acctgctgaa cgaacctcaa gagggcatat ttcactaggc accaaccacc 420
cta 423
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<210> 12244

<211> 518

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138h05a1

<400> 12244

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gttacagagc aaggtgaata ctccgcgaag gattaccatg acccacctgc ggcgccgttg 180
atcgaccagc atgagctcac taagtgggtcc ttgtacagag ccgccatagc tgagttcata 240
gcaacactcc ttttccttta catgaccgtg ttgaccatta ttggctacaa gagacagagt 300
gacacaaaaa tccccggtaa caccgagtgc gacggcggtg gcattttggg catcgcttgg 360
gccttcggtg gcatgatctt catccttgta tactgcaccg ccggcatctc tgggggacac 420
atcaaccctg cggtgacatt cgggttgctc ctgggacgca aggcgtctct ggtgatggcg 480
ttgctgtaca tgatagcaca gtgcgccggt gcaatctg 518
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<210> 12245

<211> 484

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220138h05d1

<400> 12245

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ttnttttttt tttttgctgt ttgatattta catatttttag ggcagaataa aggttgaaat   60
ttacattcta aatacaccat attttgggtt ttgaatgtca cggttcaagg aggagagat  120
ggatagacca atgacttttc ttgtatccgc tggatcaatg attccatcat cccaaagcct  180
agctgttgag taataaggac ttgcttctct ctcataagcc tccactactt tccctttaa  240
cttatectct tcttccttgc tccactgaat tcttgcctt ttcttggtgc ctttctctat  300
ttgggccagc acaccagcag cctgagcacc acccatcaca gaaattctag cattaggcca  360
aaggaacaag aaattgggac tataggcacg accgcacatt gcatagtttc ctgcacaaa  420
gettectcca accattatag tgactttagg tacctttgca caagaaacag ccatcaccat  480
tttt                                             484

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<210> 12246

<211> 396

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138h06a1

<400> 12246

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catggacgtg ggggagccga gagattactg acaaccagga ggtgctgtcg tgctatgccc   60
atagcaactg tcggaccgtg ccatcgctcc ccatgagacg gattacctcc agactcctcc  120
cgttcgtctt tactctccag acgacagcgt caacattgcc attgatacac tacctgacct  180
atgttctcgc cctggagaat aagagcaagc gccatctcaa acgcatcgt gggttggaac  240
aaatgtgatt tctatacctg tgtcgctcga ttgaccactc tggggatgtt agctcatgca  300
cttattaaga cgagtgtggt gtcagccatg atttggctgc cttcaaggca caaaaacctg  360
ctgatctaga ctggcattgt ccttccttta aatctg                                     396

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<210> 12247

<211> 383

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138h06d1

<400> 12247

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cccccccccc cctttggggg gcccccccc ccccggggg ttttctctc tctcgtccc 60
cccgttttcc ccccccccg ggggggggg ccccccccc ccttggggcc ccccccttc 120
cccccccccg ggggggggg ggggggggtt ttggggggcc cttttcccc ccccccccc 180
cttttaaaaa gccgggggg gcccccccag aaaatttctt ctctgggcgg ggtttttcac 240
ccccccccct ttacaaagaa aaaaaacaag gtgggcggcc cccccccgga ttgtaaaacc 300
cctctttccc ccatacccg ggggcaaaaa gaaaaatagg gggggggcga ggccccgccc 360
ccatcttaaa aaaagggggg ggg 383

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<210> 12248

<211> 313

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138h07a1

<400> 12248

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gaagggtttg taagagaacg aaatatgatg ctcaagatga gtggtagggt ttctgggacg 60
gtgaagtggg tcatcgatca gaagggttt ggattcataa cccctgtcga tggcagcgag 120
gaactcttcg ttcaccaatc tcagatcaaa tctgacgggt tccgaagcct agctgaagga 180
gagtcggttg atttcgctat tgaatctgaa tctgacggac gcgccaaggc tgtagatgtc 240
actggccccg acggcgctg cttccaggga accagactcg gcggtaatgg tggccgaagc 300
tatggcaacg gac 313

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<210> 12249

<211> 459

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220138h07d1

<400> 12249

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gacattcaat gtaattggaa cacaatgata ttccttaatg ataaggcaca agataaaatt 60
cagtttcata tcatacctaaa tacgagtaca acaagtagtc acatatgaag tagctatgcg 120

```


acatatcaat caaactcgtt attcatctct gtgattccca gctgcaaaag acaatgcaat 180
 gctgaactca cacggttgta cgttcactat gatttatgga acatgctata taatgatgtt 240
 ccccatgca tgtgtgtatt acactactag cccatagtat aggaagggct gggtaagttg 300
 atcacagtcg ttttgacctt ggatcatcatg tttatgctgt tggtaatccc ttgagatcca 360
 atgccactgt cttttataacc ctgaaaggga aaatgatctg gcccacgagc tggggcagaa 420
 tttatctgaa ctgtcccgtt tccattgcat cactgatca 459

<210> 12250
 <211> 612
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220138h08a1
 <400> 12250

gtttgttggt agctataagc tagttctccg tgaggagaat atgaagttgt ttgttttctt 60
 tgttgctgca gtagttttgg tagcatggcc atgccatggc gcaggctacc aaaggttccc 120
 tctccgaatg aaaactgggt atggtgagcg ttcttcggag gtaaaatgcg caagttttag 180
 gcttgctgtg gaagcacaca acatccgagc ctttaaaacc attcctgaag agtgcgttga 240
 accaacaag gactacatta atggcgaaca atttagatca gactctaaaa cagttaacca 300
 acaagctttc ttttatgcta gtgaacgcca agtccatcac aacgacatat ttatattcgg 360
 catagataac accgtactct ctaatatccc atactatgaa aaacatggat atgggggtgga 420
 ggaatttaat gaaaccttat atgatgaatg ggtaacaag ggcgacgcac cggcattgcc 480
 agagactctt aaaaattaca acaagctgtt gtctcttggc ttcagattgt attctngtca 540
 ggaagatatc ttgacataat ggccgtatca gaagcatacc taaagaaggc ttgctttcac 600
 acatgggagc ag 612

<210> 12251
 <211> 598
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220138h09a1

<400> 12251

agcaaagga aaagcaaaca gagtgctcta tcgaagatag aagaagagat ggctaaatct 60
ccagaaactg aacttcccg cgaagcttcc ggttgggctg cttcagacac ttctggcacc 120
cttgacactt ttcatttctc cagaagagaa aatggcggtg atgacgtcac tctcaagatt 180
ctcttctgcg gggtttgcca ctgggatctc cacactctca aaaacgactg gggtttcacc 240
acttaccctg tcgttcttgg gcatgaaatt gttggtggtg tgacaaaagt tggcaacaat 300
gtgaaaaact tcaaagtggg tgataaagtc ggagttggtg tgatagcggg gtcttgcaag 360
gaatgtgaaa gttgcbaaca agatctggag agttactgtc cccgccctgt ttttacctat 420
aactctcctt attatgatgg gacacgaacc aaaggtgggtt attctaacaat catggttggtg 480
caccagcggt atgtgctccg atttcttgag aacttgcttc ttgatgctgg tgctcctctg 540
ctgtgtgctg ggataactgt gtatagcccg atgaaatatt atgggatgac agagcccg 598

<210> 12252

<211> 592

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220138h10a1

<400> 12252

agatggacaa gaactcagat gaaatatttt tccctcgggc agtagatcac agaacaaacg 60
aaaatgacca tggtaaacag atgaatagta gtggagccaa gaacattacg gaggaacaac 120
aggcactggt atctggaatt ccaatccaac aaaacctagt atttgaaaat gacatgctag 180
aaagtgataa cgtgtcattt actgaaaaca ttaaatcagg atcactgact acttcaaatg 240
tctatcattg ctatgaaagt aaattggctt ccctgataag gaaaaatgga attctggagg 300
gacaattagc agcttcctta gcaagcaaag aagccgcaga gaaaagtgtg gcatctgttc 360
tcaaaagtag acaggaaatg gagaggaaat tggcggaatc acataaggag atggaattga 420
tgagagagaa gctgaccagt ctagagttgg cccaggaaga ggccaacaac ctatcaacat 480
tgtgcactct gacaatgtac ggcttgagca tgatgtggcc ttcctcaggg ctgnttagat 540
gatacacaga aggagttgca ctcaacaaga ggagttattg cacgagaaag ag 592

<210> 12253
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220138h11a1

<400> 12253

ccgacacacc gcaggaccat gatgtcgctc tgtgatgtct tcaagctcca aacgtgtgtc 60
taagtgtctc atttttgtgt tcctggcttc cctacacttt ggatccaacg ctcaactctt 120
accacaagat gaaggtactt aattattttc cattttatct ttatcttatg ggttttcatg 180
tgttaatcat gtgcgtgttg gaaatttcac ttttgtaact tccaaaacta taaactgaaa 240
ctgtcttttt gggtttaaca ccaacttcac aaagtttcaa ctttatccgt tttagtgcga 300
acccatcttc cagaatttag ttcttcaact tgcattgctg cttctgtcac aagatccata 360
aggaaatcgc caatgtcggt ttttttttgt tcctgtcttc ttccgtttac atttaattag 420
tttttttaag aagttctgca tctaacttgc tcaaaaataa aaataaatga aattttttct 480
atttttttta aaattttctg ggattatttt ggggtcccagt gattggaata gagag 535

<210> 12254
<211> 491
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220138h12a1

<400> 12254

atatcccccc ctagctacag agcagcttaa ggggtggaat aataataagc ctatattgga 60
aggccggaaa aataaaaaag gaataacaaa aatgtctgga aaggtaatta tctcggctgt 120
ttctctcatc ctggtggttg gagtggccat aggtgtggtg gtggccgtca acaagaaggg 180
cgaggatccc acacttcaat ctcaacaaaa atcagtaggg gttatctgcc aaaacactga 240
tgaccagaag ctctgccacg aaaccctaag ctccgtgaag ggcatggaca ccgctgatcc 300
aaaggcttac atcgccaagg cggtgaaagc caccatggac agcgtgacca gggccttcaa 360
catgagtgat aggctcagta ccgagtacgg aggcaacgat aaccgaacca agatggcctt 420
tgatgattgc aaggacctct tgcaatccgc tatcgagagc ctccaactca gcattgacat 480
tggttcacaa c 491

SECRET

<400>	12255
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<210>	12256
<211>	511
<212>	DNA
<213>	Glycine max

<400>	12256
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5612

attcataaaa aggagtaaca ttgtggattt caattcatta tcattctatt atacctcctc 420
aacctcttcc catgtatcat tttttttttc atgtcccgcc caaggtacta ctatcaaaaa 480
cccatgaaa actggtgctt actcaacttt a 511

<210> 12257
<211> 87
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139a03d1

<400> 12257

gaaacaaaaa ttttggcatt ttaaaaacca ccaaaagaac aggggaaaag gggaaaatat 60
aaagccgcaa acgcccgcac gcccaaa 87

<210> 12258
<211> 350
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139a04d1

<400> 12258

atggaaaagt ttttaagattt tattaaacca aaaaaaaacc aggggcaagg gggaacatta 60
aaaccaaaaa caccacaaaa ccccaaaacc ccaccacaac caaccagggg gaaaagacag 120
aatgaccgtc cccaagagca cagccttaga aaagacaaaa aaaagacgct acaaccaaca 180
acccacacca aggccaaaca cgagcaaaac ccccgagag aaaaaacagc cacaacatat 240
cgaggccaca cacagcaacg aaacacacct ggggccgaag caaacaacc aagactccca 300
gttgctcaag aacggagacg aggtcgcgac caaaaaaacc cagattccac 350

<210> 12259
<211> 214
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220139a05d1

<400> 12259

gnnannanaa aaaaaaaac agggaaaagg ggnannnnnn nanncgggga ggcccaaagg 60

ccccaaagacc ccaccacacc caaacagggg aaaaagacag aaagaccgcc ccaataacca 120
 caccctaagg aaaaaaaaga caaagacgca tcattccaaca agccccacca tggacaaaca 180
 cttctaaacc cccattacaa acaatcctga caca 214

<210> 12260
 <211> 297
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139a06d1

<400> 12260

aacaaaaaac taaacaaaaa ggggaaatgg gaaaacaaaa aacagcaaaa acccaaaaaac 60
 caaaaaaanaa aaaaaacaaca caaatccaa acaaaggaaa aagaaggaaa aactctccca 120
 ataaccacaa cctttggcaa aaaaagaaaa agatgcttca acaaaaaacc cccatcaagg 180
 acaaactgta gcaaactccc attatagaaa aaccagtcag aaaataagga gtccacaaaa 240
 agaagggcag ccacttgggg ctgaagcaaa gaaaaaaaaga ctcccagcag aacaaga 297

<210> 12261
 <211> 209
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139a07d1

<400> 12261

aacaaaaaat tattctaaaa aaggaaatgt gtaaacatta aatattaaaa cccccaaat 60
 ccaaatacaa ttatataatt aattatcaaa acatatgtaa attatttaat aattttccat 120
 attatcatta tttttttttt gacataaaaa taattttttt tgttacaact catattataa 180
 aaaaaaatta ttaaattcccc atttataat 209

<210> 12262
 <211> 247
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139a08d1

<400> 12262

atatcaatac attttttaat ttagggctct tgtgaaattc taatgttcga aaaccacac 60
 cccaatatac ttttttttca ttactattag gaccatggat agtataccag ataacactca 120
 ttctgtttac tactttttatt atattccaag ccttatgatt actatgactc tgctattaac 180
 aagcaatctt atgagtattc tggttgtggc tattaagggtg gctacaacaa aacttcttat 240
 actagtg 247

<210> 12263
 <211> 133
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139a09d1

<400> 12263
 ggggagcaaa ctcatccaac aggggcaccg ggagaacaaa aaaaagaaaa aacccaaca 60
 cccaaaaacc caaaaaccct accccacca accagagcaa aaataaggaa ggacttttct 120
 aatcaccaca acc 133

<210> 12264
 <211> 445
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139a10a1

<400> 12264
 ggaaatgaaa ggaaattttc aaaaatttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 60
 aagggcgcc gctcgcatc taaaactagc ggctcgagga agatctccat tctctttatc 120
 acaatctttt cttgtggttt tcttggaat gttgtttcaa atgctagtcc tcttccatat 180
 gaagctattt ttaactttgg tgactctata agtgatactg gaaatgctgc tcataaccac 240
 ccacctatgc ctggcaatag tccttatggt tcaacatact ttaaacaacc ttctggacgt 300
 atgtcaaag gacgactaat catagatttt atagccgagg catatgggat gccaatgttg 360
 ccagcctatt tgaatctcac caaaggacaa gacattaaga aaggagtga ttttgcatac 420
 gctggttcaa ctgcacttga taagg 445

<210> 12265
 <211> 365
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220139a10d1

 <400> 12265

 caatatattg ttcatgttta tgggataacg gtacaatgga ttcaagatga aaatcttgaa 60
 acataatcct ttgtttcact tcattttcat ttcggtccca ttatcctcaa tattattcca 120
 aaacatacaa attataatac acaatagtta ataatatatt gcccatcatg gaatacaaga 180
 tgcttgTTTT agcaaacatt tgcttatgtc atccatgtta caaatataca catgaaacat 240
 atggagaaaa gcttattctt gctcatttcc atccatgctt aaattctaag ctatcttgaa 300
 aggaggggat ctgagagatg gattagcgaa agggccctca actagtcctt tagctattag 360
 cctat 365

<210> 12266
 <211> 481
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139a11a1

 <400> 12266

 ccatttccat aatcactttt tctattttt ttctccatcc atcccttgac taattaatta 60
 tccctcacia ctaccaatgg ccgaagagaa acaccacaag caccgctct tccaccacca 120
 caaggacgag gataataagc cagtagaaac cgatactggt tacgacaaca catcatattc 180
 caagccttct gatgactatg actctggttt caacaagcca tcgtatgagt cttctggcgg 240
 tggctatgaa ggtggttaca aaaaaacatc ttattctagt gatgagccag cttctggtgg 300
 tggctatgaa ggctgggtac aagaaaacag gttattctgg tggcattgat gagacttctg 360
 gtggctatgg cgctgggtgt ggggtggatac tctgacgtca ctgatgggtg gctacggcac 420
 accaagtgnn tggctatggc gccgctggtg gtggtnggtg tgtaccctga cactaccact 480
 g 481

<210> 12267

<211> 485
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139a11d1

 <400> 12267

 tncnntnnnn nnnnnnnttt aacnctttcc atttgaggat atattatattt aggtacttga 60
 cacttaacac aatacacatg catatataga gcaacacatt tcaaggaaac attctccaaa 120
 ccatactgat ctcccaaaat aaactggaag atgattaact taaagacaca catatatata 180
 taagccaaaa gcatatatat atataagaca agtggaggga atacgctcat aattgggttg 240
 tcatgcttca gccaaagaga tgggtggagct tctttccatg agcttctctca tcttgctcct 300
 ttgcttcctt tttctcatga agctcatgga aggcaaacc accagatccc actgcagctg 360
 gtgctgcaac ctctcttct atcttgtgcc tgtgagcatg ctctgggtca ttctctgcct 420
 tgcgcttctc atgcaagggc gtaagcagca gcagatgcag cacctaactc accaaggtgc 480
 tcaag 485

<210> 12268
 <211> 557
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139a12a1

 <400> 12268

 gacaaaatga aagtccattt ggtccttttc ttgctcctaa ttcttgtcag cttcactagc 60
 aatgttaaca ctctctcaac caattccaaa tccaactctt caattcctca attaaccxaa 120
 cagaaaaggc ctgacaatga gacaatatat agagtatcaa agcagctatg ttgggggttg 180
 attgcagagt cactggagtt tgttcaggca caacttggtg agagcagcca agtgggaact 240
 cccactgatg tgggacttcc agctggagca atacgcgagg tgggtgggctg gtcaaaggaa 300
 agcagattgc aagctcgaac attctttccc agaagatggt ttcaagcttg gagagaacat 360
 ttattgnggt agtggctcgg cgtggacgcc aagtgatgct gtaagagcat gggctgatga 420
 agagaaatac tacacctacg ccactaatac ttgtgtgccca ggtcagatgt gtggccatta 480

00220139b01d1

cattcagata gtgtggaaga gcacctgaag aaatggatgt gctcgggtgc atgtgacgat 540
gaagatgtgt tcatgac 557

<210> 12269
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220139a12d1

<400> 12269

tnnnnnnnnn nnnnnntttt ggggtttgat aaatatttta tttcactttg tatgagggct 60
caaagttaa cctcaggcaa cagatctcta actactgata ccctttaatt actttttggt 120
acttttatatt attgacccaa gtactaacta attattaaag ccaatcccgt aattatccca 180
cttcccacaa gtatttacat atacactcgc acatactcac tcataaggac tgagaaacta 240
attcacactc acataagcta gcactattgt agtattatct aataccacta gagtttcaat 300
ttcgctacat gaattaatgc acacatagtt tataacaatt taataggggc gctctccgac 360
ataattgccc acgggatcat aattacaagt catgaacaca tcttcatcgt cacatgcaac 420
ccgagcacat ccaattcttc aggtgctctt ccacactatc tga 463

<210> 12270
<211> 611
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220139b01d1

<400> 12270

tggattgaaa gtttagtata nctattaccg ggtagaccag cataactcgtc ggcgcccgcc 60
cttttttttt tttttttgaa aacaacatat atatgttttc ccatatttat aagcacaatg 120
gtgttttggt gtaagggtcca tataagggct aacaaagtgt agtaatgtga caaatatttg 180
aattctgtta tgcttatctg aggaaaacaa aatgacagta actataagag gacttgcagt 240
gatttgaaac acaatattat ataaaattaa tcgcgtttga ttggagtagc ttgaactoga 300
agaggctgaa ccttctttta tgttatcgca tattgctcct ccatgttcat gtgttctgga 360

attaacccat cagctagctt ccattcaaag ttgtgtacaa gggatgctac tattaaatgc 420
 attgtcctgt gagctaattgg caatcctggg catatccttt taccagctcc aaagggatg 480
 agcttaaaat cgtgaccttt aaaatcaatc tcacatttca aaaatctttc gggcataaaa 540
 attgntggat tctcccaaatt ggttggatct cgtcccatgg cccacacatt gaccaagatt 600
 tgtgcatttt t 611

<210> 12271
 <211> 601
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139b02d1

<400> 12271

aaacatggac ttgtaatttt aacttgcaaa tttccagttc aagaaaattg gatcacgttt 60
 actaggcaac atgaatcatt aaaacaaatc acaatatcac tatcaaaact aaatatgcta 120
 gtcaactgcg actaggacac ttgcttaacc gctgttgggc taatagtcac cagattccac 180
 agctaataag acagattgat ttaaaacat ctattttcaa attatatctc aagagtagca 240
 cggttggaag cagccaaccg caaaatactg aagcatcaa gccttgtaag gccgtataca 300
 agtacatcat gggcaccagc ggcaacaaat aactcttcac tgaataccac cccaagtaaa 360
 agcaaaataa ataccgaaat gaatatatgg taaacttgat gctgtcaatt atgcctcaaa 420
 gctgccactc cattaatttg ggcaggaatt cccgtcctca agtcaaaatt ggtacaaatt 480
 cacagaccag tgacttttcc cacagcaaca gtttttctt cagtgcgaag agtgaacnnc 540
 tccagtgggg aaaatcagag acttctcatg caaaagagtt attacctgac acggacatac 600
 a 601

<210> 12272
 <211> 284
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139b03d1

<400> 12272

gaaacaaaa cttttagatt ttactcacca aaaaacagac cgggggaaag gggggacttt 60

cactacgcaa acggcaacat acccacacat cccaccacct ccaaccaagc gaaacatgcg 120
 acataacccc ccctaggaca acagcctaac cgttgacggg ccaaagatgc tcaaacttaa 180
 caccccaatc aacagcaaga ccgaccaccc gcgctttaca aacaactacc gcaagagcat 240
 cacgagggca cgcaaacaac cgcaaacacc tggagctgcc acaa 284

<210> 12273
 <211> 285
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139b04d1

<400> 12273
 gggggaaaaa ttttgagatt ttattaaaca aaaaaangcc cgggggaaag gggaaacatc 60
 aaagccgcaa acgcccacac accaaaagac aacaccaccc ccaaacaggg ggaccagatg 120
 gcaggaacct tccccatgag gacaacctta gggaggacga gacaaagatg catcaccta 180
 caacacccat caatagcaaa caagaccaa ccccccgac agacacaccc gacacacca 240
 atccgacca ccaagagaag ggcaaccacc cggggccgct gcaaa 285

<210> 12274
 <211> 285
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139b05d1

<400> 12274
 gccccacac caccagggga attcccattt tatnncatc acaggataac cagcacaccc 60
 atcggcggcc gccctttttt tttttttttt aaaaaaaat tttaacaata tatncacaa 120
 acaaacaaaa ggggaaaaag ggaaaaataa aaacctataa caccaaaaaa ccccaaaaca 180
 ccacaaaaac caaacaagag aacaatacag aaaaacgcac caaaaaaaca ccccttttaa 240
 taataaaaaa caaaaaatct tcaaacaaaa acccccacca agaac 285

<210> 12275
 <211> 260

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139b06d1

<400> 12275

aatataaaaa tataagaaaa aaataaacia aaaggagcaa gtggaaaaca aaaaaaagaa 60
 aaacccccaa aaacaaaaaa caaaaaaaaa acaaaaaaaaa aaaacaagag aaaaagaaaa 120
 aataactctc caaaaaagaa aaacctaaga taagaaaaaa aaaagaagct acaacaaaaa 180
 aaccacaaca aggacaaaca ggagcaaaac cctaatagaa aaacaccaga cacaacaaaa 240
 cgattccaca aaaagaaaaa 260

<210> 12276
 <211> 174
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139b07d1

<400> 12276

agccccaatc ccatattcat gcatgcatcc tcggaacanc agctactagt cgaggaccgc 60
 cctaaatttt catttttttt tatataattt ttctaaaaaa agtaatctaa aataggaaac 120
 tggtaaca ttttaaacca aaaccccccc caaaccccta taaacccccca aaat 174

<210> 12277
 <211> 314
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139b08d1

<400> 12277

taaccttttt aactagatta taaaatttta acaagacaag aacaccaaag ggggacgggg 60
 aaaaaccata acaggagaca accctgacac ccaacaact aacataccta gctatgggat 120
 gcaaaggaca gagaaggaca taaaacaaca ggagctgtta ctgcactaaa gacagttgct 180
 gggaacaggc taccaagcca cacgcctata caatggaagg gatggccatc gccacattct 240
 tctcagacat ccaaaaggca cacagattgc ctgaaaagac tatagcactg gtgactgagc 300

aggacacagc attc

314

<210> 12278
<211> 234
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220139b09d1

<400> 12278

aacaacaaat caaaccaaca ggggccccgg ggaaacacaa aacagcaaaa cccccaacac 60
ccaaaaaccc caaaacccca ccacccccaa ccaaaccaaa ccgaaggaat gaccctcccc 120
aagaccacac ccttagggaa cacaagacaa agacgcaaca accaacaacc cccaacaagg 180
ccaaactcgc cgaaaccccc cggggagtca ctcccgccac agcatagcga ctcc 234

<210> 12279
<211> 289
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220139b10a1

<400> 12279

gaaacatgca gagactatac aactttttcg cattttcgct atcaaccacc ggaaaagggg 60
gggggggtgca ccgatactaa acctcccgcg ttgaacgtga gatattctatc aatattatcc 120
cctctctcag tgggtcggat ctgcacaaat ccggaacgaa cgctattgct agacaatctg 180
gagctgactc ttcattggcg gaccaagcac taaactcact gaatgctgac cacaatcatg 240
aagcacagtc ttcatgcaca tttgaaccgg ctacaaactt aacttgtca 289

<210> 12280
<211> 202
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220139b10d1

<400> 12280

aacaacaaat ccatccaaca ggggccccgg ggcaacacaa acccgcggaac cccccaacac 60
ccccatacc taaaaccctc cctcaccacaa cccggcccag aacacggaat gacngtccca 120

atcagcacc cctttgacaa cacacgcaa agacgcaaca cccaaccagc cccaccaagg 180
gcaaacaccc gcacaacccc ct 202

<210> 12281
<211> 440
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220139b11a1

<400> 12281

ggcatatcaa ccgcgttaac tatatgttgc gttctgtata tgcttgtagc agcagttatt 60
gttggttag taccatatta tgagttgaac cctgataccc caatctctc agcattttct 120
agctatggga tgcaatgggc agtgtaaggt atataataac aactggagct gttactgctc 180
tttttgccag tttgctgggt tctgtgcttc ctgagccacg cgtctttatg gcaatggcta 240
gggatggttt attgcctcat ttcttctcag acatccataa aggcacacag attcctttga 300
aaagcactat tgactgggt gtctttgcag ctactcttgc attcttttgg gacgtttctc 360
aattacaggg atggttaggt gtgggaacac tgcttgcatt taccactgtt gcagtttcag 420
ttttgataat cagatatgtg 440

<210> 12282
<211> 537
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220139b11d1

<400> 12282

nnnnnnnnnn nnnnaatatt ccngngttca tgttgnttag tatttcgtga gtatgttgac 60
tatacatggt taatgcctca tagggagaag tttgtaaaag gatggactca tccggttatg 120
gccacttggt taaataaaca aataaataat catagtaatc atccgtctga tagcggaag 180
aaagcattgg tttagaatag gatatttaca aattggtgta agccatgtaa tgtaatatgt 240
cacaattatg taacaaatgg atatagacct gaagtgtggt aactttggta gctgccgtgc 300
aaatactagg caagatgact tgcttgagat cgatggattt catcagcata tgctgagggga 360

acatagattg catgcaacag tgagctgtga gtgcggccat agaacaagta tacaagttct 420
 cctatcaaca tccataccga aactcgcagc catgtagcaa ctccaagatc gattagtaag 480
 tagggtgttt ataagaatac atgcagcagg taaagaatgg aacaaatggg caggcaa 537

<210> 12283
 <211> 513
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139b12a1

<400> 12283

cagctcacta acaccagcta ctactttttc cccccacccc ccactctctc aaaaaatgtg 60
 ccagggcctc tccgccccat cgccgccgtg ttcggcgctt ctctccttca cgctcctcct 120
 cctcctcctc tcggtggtgg gcccggtttc ggcatggcgg ccttggtccc agagcaacaa 180
 aatgaacatc agcgattatg ccttcgggga ctccaagaaa tacgaggggt cctcggagtt 240
 cgtgaagctg aggtaccaca tgggaccggt cctgactacc aacatcacgc tccacaccat 300
 ctggtacggc aagtgggagc ggagccagaa gaagatcatc cgcgagttca taaattcaat 360
 ctccgccgcg aactcgcgc acccctcctt ggccggatgg tggcgcacgc tgcagctcta 420
 cacggaccaa accggcgcca acatttncaa atcgggttcga ctcggcgagg agaagaacga 480
 ccggttctat tcccacggca natcactgac ccg 513

<210> 12284
 <211> 409
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139b12d1

<400> 12284

atcaataact ttaaaattac attatttgca ttagggaaca aggttaacta acttaacaaa 60
 attaccagac tcccacagaa gcacaagacc aaaccaaga aagaaagaaa aatctagcac 120
 attgactgag gagatgatca gtgatcaagc gcattaggtc cagtacagta attgagaacg 180
 tgactccaca gccactgaac aaggaatttc cgtctgatcc cattcatggt ataggtggcg 240
 ccactctcag cgtcgaaaac ctgaccggtg taggatccac cgccaccggt gccgtaaata 300

ccctcacaga gatcggcaat ctcgacgggg aaagaggggt cctgacccgc ataccaagca 360
 ttgcgcaacg gggtcgttgc cagttcagcc atctcgtgtc caatcacac 409

<210> 12285
 <211> 137
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139c01d1

<400> 12285

cttaaataat ctgatattat tgaaaacatg gggcaacaaa ttcaatatga acaatataca 60
 tgaatataag aaatatatgt aagtacacgc atggtcagtt catatccgaa gggtcctaac 120
 caaccacaaa acggtcg 137

<210> 12286
 <211> 390
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139c02d1

<400> 12286

gggacaccaa aattgcacgg ggaaaggggg aagttaaaca tcacgagcat cattataacc 60
 atatagaata caacttcgca cagggcaggg ggggccatat atgggctctt gggaccaaac 120
 aaggggggca ttaaaatatt agaccgcgga aggaaatgcc tcctgggacc ggtccctttc 180
 aaactcacat caagaccctt aaaaaccccg gaggggaata agaataggag ctggtttgcc 240
 atatttgggg ggactgctta ggggggtggg tttagagagcc agcaaggag gctccccttg 300
 gattctgctg ctgatgttcc agagaaatcc cagactgaga atggtacaag gtagggatc 360
 caagggaccc caaatgttgt tgtgagggt 390

<210> 12287
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139c03d1

<400> 12287

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gccacacga nnnacagcgg gaagctttan natgcangct aataccagaa ataaccagca 60
cactcatcgg cggccgcctt tttttttttt ttttttaata aaaattttta gattttaccc 120
aacaacaaaa aaacangggg caaggggaaa tttttaaac acaaacgcaa aaatacccaa 180
acataccacc aaaaataaac aagtgttaaca tacaacaata actttcccta ataccacaac 240
ctttgctttg ataacataaa catgctttta aataaaaccc acaccaagaa caaaaccac 300
cacaccgca ttacaaaaaa accagacaca atttaatat tctacaaaa taaacaaaac 360
aatcttgtgc tcattcaaaa aaaaaaacgt ctctataaat gaccaagaaa agtgaacctt 420
ctacaac 427

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<210> 12288

<211> 255

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220139c04d1

<400> 12288

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atcaaacaaa aaaagggacg gggacaaggg gaaactgcaa acacgaagac ggccaaaaac 60
ccaaaaacac caccacaccc aaacaggggc aaaataagga agaaccctc catatcacca 120
cacccttagg ggggacggga aaaaaaagca acaaccaaag aggcaaacca aggacaaaca 180
ggagcaaac cccatgaaaa acaaaccgga cacaacatag cgagtcccca aagagtaggg 240
cagcaacgtg gggcc 255

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<210> 12289

<211> 117

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220139c05d1

<400> 12289

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aaaattggag tgaattcaga gtcnatgtgt gctgctttgc atgaatgcgt acggtacgac 60
tcaggattac tagttcgagg accgcccttt tttttttttt tttttatatt tattttt 117

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<210> 12290
 <211> 217
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220139c06d1

 <400> 12290

 ctattataat tttaaccaa acctaaacca aaaaggggtc cttgggaaat actaaagccc 60
 aaaaccccc accacaaaca ccgtctcttc catcaccaca ctgacaagga taataaatca 120
 aaaaaaacg atactgacta ctacaacaca tcatattcca agcctactga ttactataac 180
 tctcatatta acaagcacat catatgattc ttctctcc 217

<210> 12291
 <211> 202
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220139c07d1

 <400> 12291

 ttacattttt tttttttatc ttacctttac ccaccacttt ataacaaaag gggccagggg 60
 gtatcaaaaa aatctcaacc ccccaaaatc ctaatatcct aaaaactcct catacccatc 120
 caatcggaga tgatcccata accttcatga tgaccactgc cttagattaa caaaataaac 180
 aatctttctt ataacaaccc cc 202

<210> 12292
 <211> 269
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139c08d1

 <400> 12292

 ataacaaaaa attattcaaa aagggggaag ggggaaacaa taaaaaggaa aaacccaag 60
 acccaaaaac cccaaaatca aaccttcaac cactaaaaag cacataatta aataaccctc 120
 tcccactaaa aaccttttta atatacatga taaaaaattt attccctaac tccctcacac 180
 acgaacaaac ttncttacia tctctcagta ataaaatgga atcccaaaaa ctgtatctca 240

caaagcttga cggacctaac tgtgatggg

269

<210> 12293

<211> 246

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220139c09d1

<400> 12293

tnnnnttggt gttttggttt tgggatttta ggaaacaaaa aaacaaacgg gggcccgggg 60

gaaacaaaag aacgaaaaac ccccaacacc caaacaccaa aaaaccccc caaaccaaac 120

caggggggga aaacacaaca acgcgcccgg aggccaccgc ctgaggggaag acgggacaaa 180

gatgctacaa cgcacaagcc cgcccaagga caaaccccc caaactcccc tggcagaatc 240

tcccgc 246

<210> 12294

<211> 329

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220139c10a1

<400> 12294

gaaacatgct aagactaaac aactttttcg catttacgct atcaaccacc ggaaaaggga 60

agtttctgca ccgaaactaa acctcccgca ttgaacatag cctatctatc aatatcaaca 120

gctctagcag tgatcaggat ctgctcagaa cctgaatgaa ccctattgca agacaatcta 180

cgacctgaat cttaattggc ggcccaagca caaaactaac taaatcctga ccacagtcac 240

gaagcacagt cgatcatgctc attaggaccg gataccaact taacttgtca atgggggaga 300

acaaacttct cacgtggcac aaatacaaa 329

<210> 12295

<211> 238

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220139c10d1

<400> 12295

002220139c10a1

agaaacaaac aattacaact caaatgctgc actgcaatgc acgaccatta aacaaacaac 180
 caaaacccaa aatcaatcaa ttgagtgcac caactccagc cccactattg cgagcgagtt 240
 tcgtccactc ggtatgaaaa gccccagggc gatcaaccct ctcgtaagta tgcgccccaa 300
 acaagtcctt ctgagcctgg acaaggtttg ccggaagtct tgccctccga taggtatcaa 360
 agtaagcaag actggcacac attccgggag tactaatccc agccgaaacc gtcaacccca 420
 caaccctnct ccacgcagcc tgtctctgca ccatttcctt tgaaactccg ggtccacaat 480
 caaactcg 488

<210> 12298
 <211> 542
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220139c12a1
 <400> 12298

gattccacaa cagtgggagg gagattcaaa aagagagagt ggaaaagatg gcgcggttga 60
 tcacagtggg gtggtgcgcg gtggcggtgc tattatgcgc cgcggccggg gcgtcgtggg 120
 tggaggaggc ggcgaacccg atacgaatgg tgtctggcgt ggaggcggag gtggttcggg 180
 tgatcgggga gtgccggcgt gcgttgaagt ttgctaggtt cgtgagcagg ttcgggaaga 240
 gttaccaaag cgaggaagag atgaaggaga ggtacgagat attctcgcag aatctcaggt 300
 tcatccgctc ccacaacaag aagcgtttgc cctatactct ctctgttaat cattttgctg 360
 attggacttg ggaggagttc aaaagacaca gactaggagc tgcccaaat tgctctgcca 420
 ctcttaacgg caaccacaag ctcaccgatg ctgttcttcc tccaacgaaa gactggagaa 480
 agaaggtata gtgagttcag taaagatcag gcagtgcgga tcatgctgga cattcgcaca 540
 ct 542

<210> 12299
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220139c12d1
 <400> 12299

gctatcttat aactgatatt gggagcggga gcatacaat aatacaatat gtaactatga 60
 actatcaata tatgatcggtt attatgtctg tgatacacac aattaaggcc ataataact 120
 tatgtgattt acaacaactt ctagcttatt ttatacatca tgccaaccca actaggagca 180
 attttcatca tacaattaca cttatcttta atcatcattc atcaatactg gcatacagcaa 240
 tacgctctaa actctgaagc atgacaagggt ggtagtcacc agggaccata ttgttatgca 300
 atttatgcca caattggata agatgcacaa gttgcaacac cacacatggtt cttccccaat 360
 tccatcttga agtagccatt ttcaccccag ctttctcccc atgaaatttt tatgagccaa 420
 tatgggacac cattttcaac tccatatcca acagcaagaa cgggatgggt caca 474

<210> 12300
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220139d01d1
 <400> 12300

acttgacagaa aaaatttcat tacatgggga ttacagcat ttttttgct catgtttaca 60
 tgctttcaag ttcattttgc ttggttcttt ccaaagatac attgatgtac attaccaaaa 120
 tttaattcga gtactttacc tttttggata tcaaatacaa gtttagttta acttatatac 180
 actctctcag tgtaaaacag ttttacataa acatccaata ataatttatc ttatcatcat 240
 attatattaa tgaataagat accttgataa aacgatcaaa tcttatagga tatctatgta 300
 aaaatgtttt acattgacag ggtatataaa ttaactcat aagagaaact ttggttcac 360
 tgattgcaag agaactccat gttttccatt tacttctact g 401

<210> 12301
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220139d02d1
 <400> 12301

aagcccttcc agcacaacca aagggataaa tgaatgaaat tctaaccat cgataattaa 60
 atttgatggg aattatgatg tagcacaaaa tgtctcacca ttaaaatcaa aataacaagt 120

cgaagtttta agtaacttag gacagaactt aaaaaaaaaa aactaggtaa aatgagagta 180
gataacttgg tacattatgt cacttagcac ttaacctcct ttaaggcata tgcaaagtat 240
aagaatgttg gatcagcagc accatccttg tagtatgcaa agaccaagca agcatcatca 300
ttcatgctct ccccaacaaa aaactggaaa tccttaatct tagagagcag gtatttagtt 360
gctccctcaa tgtgcttctt aaacaactct tgtttctctg catcgagctt gggagtcaaa 420
ttcttgataa acctcttcat gaaggtaaca aactgtttct tatcaaaagc gggttgctcc 480
tgaagtctga atgtatcaac aatgtcaaca accttaaca 519

<210> 12302
<211> 297
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220139d03d1
<400> 12302

gcaccccagg ggccgggcct ttttcatttg catntcatcc aaaaataccc ggagacccca 60
cgggggccgg cctttttttt ggattttttac accaaaattt tgccattatt ttcaacacaa 120
aaaaaacccg gggcaagggg ggaattttaa aacacaaaag cccaaaaacc ccaacatacc 180
cccactccca aacaagagga gcatacacia agaccttcca aaaaaaaca acctttggtt 240
cgacaacacc aagaagcatt aacatacaac ccacaccaag aacaaaacag gccagaa 297

<210> 12303
<211> 200
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220139d04d1
<400> 12303

annaaacaaa aaaannaaag gggaaaaggg aaaaatttaa aaacacaaac acccaaacc 60
cccaaaacc caccacacc aaccaaannn aacagaaaga aaagacggcc cacatcagca 120
ccccatagg gaggacacc caaagatgct acaacaaaca accccaaca agaccaaacc 180
ccagaaaacc cccctgacag 200

<210> 12304
<211> 414
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139d05d1

<400> 12304

tttggttttt ttttttttat ataaatttta acaaaaaaca ataacaaaag ggggacgggg 60
gccgctctta atctagaact cccccctcgc ggaagatctc cattctcttt atcacaatct 120
tttcttgtgg ttatcttgga aatgttggtt caaatgctag tcctcttcca tatgaagcta 180
tttttaactt tgggtgactct ataagtgata ctggaaatgc tggtcataac caccacaccta 240
tgcctggcaa cagtccttat ggttcaacat actttacaca tccttctgga cgttatgaaa 300
ctggacgact aatcatagat tttatagccg aggcataatg gacgccaatt ttgccagcct 360
attagaattt caccacagga catgacatta agaatggagt gaattttgca tacc 414

<210> 12305
<211> 155
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139d07d1

<400> 12305

aacaaaaaat ttttcaaaat ggggcactgt taaaacaata aaacgttaaa cccccaataa 60
caaaatacaa aaaaatactt aataatccat aaatataaaa aatataaaat aactttctat 120
ataaaaaaaaa tctttgatat gaaaaaataa aaatt 155

<210> 12306
<211> 200
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139d08d1

<400> 12306

aaaatgaggc ccttttaaac aaaaaaattt aaacccaac aaaataaaca aaaaaattat 60
aatattccaa caaacatata tatgtataac tttcaaataa taaattcttt attttaaaat 120

002220" E T F E S 60

tataaattca ttttttaaaa ccccatctt ggacaaacaa aataaatccc cttataaaca 180
ttctttttca atttatttat 200

<210> 12307
<211> 215
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139d09d1

<400> 12307

aacaaaaaat taatcaaaaa ggggcacagg gaaaacacaa aacaggggaa ccgcaaacac 60
ccaaaaacca aaaaacccca ccacccccaa ccaaacgcag aggaaacaat aaccccccca 120
ataagcacac cctgagagag gaaaacacaa aaacgctacg gccgaacacc cccatcatgg 180
ccaaaccccc ccaaaccccc ctgacagaca ccccc 215

<210> 12308
<211> 284
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139d10a1

<400> 12308

gaaacatgtt aagactaaag aactatgtcg cattttcgcc agcaaccacc gaaaagggga 60
agtgtgtgaa cagaaactac accttcccc ttgaatatgg cttatctttg aatatcaacc 120
gctctcgcag tgagccagac atgctcagca ctgcattgaa ccctatctgc ccgacaccta 180
tgaagtgaat ccattctggc gacccacgca ccaacataac taattccaga ctacaatcct 240
taagaacagt gatcatgcac attggcaccg gataccaact taac 284

<210> 12309
<211> 177
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139d10d1

<400> 12309

accgggggga agtgtgaaac tttaaaaacc aaaaccccgaa aaacccccac acaagtcata 60

002220"ETTES60

ctatagtaaa taatttcata cagaagaaat tactaaatta aaaaaaactt tggtttaaca 120

acaaaaaaaa tcattaacat acaaccacaca acaagaacaa aacaaaccaa aaagcca 177

<210> 12310
<211> 298
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139d11a1

<400> 12310

gaaccatgct aagactatag aacttttttcg cacttacgct atcaacaacc ggaaaagtga 60

agtttctgac ccggaactaa tctctccaca ctaaataagg cctatcttac aatggttatcc 120

gctctagcag tgacgcagac ttgctcagga cagcatcgaa ccctattgca agctaatacat 180

ggctctgactc ataattggcg gcctacgcac catactgact aatctctgac cacagtctat 240

aaccctagtc gtcgtgctca ttggcaccgg ctaccaactt aacttctcga tgggggag 298

<210> 12311
<211> 289
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220139d11d1

<400> 12311

aacaaaaaat nagacaaaaa gggggcccgga gaaaacaaaa gaccggggaa ccccaaacac 60

ccaaaaacca aaagacccca ccacacccaa cccgggcaag aagaaggaat aagggtccca 120

atcaccaccc ccttagacaa gacgggaaag agaaggtaca gccaacaacc cccaccatgg 180

gcaaaccgga ggaaaccccc cagagagaca caccgcag accaggggga ctccccccag 240

ggcgccgcag ccccgggggg cccctgcaac caaaccacgn ctcccacat 289

<210> 12312
<211> 445
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139d12a1

<400> 12312

aagagcttcc gtggcagtgg tagttttccaa actagtagca agaagtaagt cacgtgtttc 60
 tccgttttca ttcatacacia tattaaagct cttagttttcc ttcagtatgg gggacactta 120
 cgtttttgcc acaccgaagc gcagccgttc cgatgacgtg gacggcggcg aggcaacaa 180
 gctgctgctg cagcagggcg aggcagaccc ggcggcggcg ctggcgagcg cgcggcacga 240
 gttctgggag cacggaggtg tgaacatgtc gatcgaggcg tcggcgacat tcacggcgat 300
 ggagccggac accatgcggc gcatgttcgg cggagaactc ggccccgacc gcgacttctt 360
 catatacagc cgtcactatc acccgacggg gctgagcctc agtcgcctca tggtcgcctt 420
 cgaggcaccg atgccgccta ctgca 445

<210> 12313

<211> 347

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220139d12d1

<400> 12313

gattagaaac ttttgacaca tattcatatc catggggcag gagggacgat cgagtagcaa 60
 gacaagacat aaagctgagc ataaattatt attatagata acataacatt atgggagcag 120
 gaagaagacg aggggtgcatg tgcattgtgca tgatgagaaa agcaattcag gcgactctgc 180
 tgtatccaga gtcgttttagt ctagtgagcg ccttttgagg ctggctccac ttctgctcca 240
 aggggtccaat gtaccaatc gacatcctca cgagccccgg cgagattccg gcgagctcct 300
 tctctcaga gctgagttca ctgctggtgc tgctgccgga gcaggac 347

<210> 12314

<211> 496

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220139e01d1

<400> 12314

aaattaatag ttcattggaa attcacggta tatgtgctaa tcgaaagcaa atattctttt 60
 cactggaggg aaacacacaa gtagagatac tgaacttcac agaattcatt atactgtata 120

069313

ggcagcggag	gacacagcac	caaanaggcg	gaaagggggtt	acttgatctg	tagcnccagt	60
naaggtagac	gcgacacccg	tgggcggccg	ccctttttttt	ttttttttta	acaaaatcat	120
ttgggcttta	gggattcaac	acagcttcac	gggcaaacgg	gaatgttgat	actattacac	180
aatatgtaag	cctttatgta	ttcaggacaa	gcagcattct	tttacaagaa	taataactat	240
catttttaaag	gttatgaatg	aagagtatca	gcatactaaa	ctacatattg	ggtaaataaa	300
ttcattttcc	aacacactaa	caaattggagt	tgcttgagta	ctaactagtg	atcctgtgga	360
aacaaaccac	agctccatgc	ctcttgtaga	aaacagggaa	tgaggtgtct	ataggactaa	420
acaacaacac	cttgagtata	tgatttatgg	gagctctgat	ggagagatta	atgatcctat	480
atgcatttat	tatcagggtga	tgggatttca	aagactacgt	tgctctttca	taaccacctc	540
caacctgcat	atgtaacctat	tctggcgatg	aacctcggct	atactctctt	gtagcttggg	600
aagcaaacgg	catg					614

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<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220139e04d1
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ttntttttggt	ttttttttttt	nnnnntttttt	nnntttataaa	annacannaa	aannaanggg	60
ggacagggggn	aactaacnnn	acaaaaaacac	caaaaccccc	caaaacccca	ccagccacac	120
ccaggaagaa	cgaacaaaac	aaccccccca	atgaggagaa	cctcagggag	gaaaagcaaa	180
agacgcaaca	acagaaaagc	caaaggaagg	ccaaaaccac	g		221

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<223>      Clone ID: jC-gmf102220139e05d1
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5638

atataaatat ataacaacac accaacccaa agggggccct gttaaacata aaaacggaaa 60
 aaccccaaat accaaataaa aaaaatacct taataatcaa aaaaatcaca aaacacaaaa 120
 aaaaagtttc aaataagaac atactttatt tataacaaga aaaagatgat ttttcataaa 180
 tgcctaatta aggaaaa 197

<210> 12319
 <211> 207
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139e06d1

<400> 12319

aacaaaaaag aattcaaaaa tgggtactgg taaaacatta aaacttaaaa accccaaaat 60
 caaaaaataa ataaataatt cctccaacaa acaaaaagaa cttacaaaat tacccttcta 120
 aattaaaaaac cattttaatc taaataataa tcaacattaa ccctaactcc ttctcatacc 180
 acaaacttac ttactatctc atactaa 207

<210> 12320
 <211> 199
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139e07d1

<400> 12320

gtatataaaa tttaaacaaa aaactaaaca aaagagagaa aggggaaaac aaaaaaacga 60
 aaaaaccca aaacaaaaaa aaaaaaaaaa aacaaaaaaa ccaaaaaaaa gaagaagaca 120
 aaacgacact caaaaaaaga acaaccttaa ggaaaaaaa aaaaagatgc aacaagaaaa 180
 aacacacacc aaggccaaa 199

<210> 12321
 <211> 118
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139e09a1

<400> 12321

caaacacgca aacactaaac aacctgtatg cactttcccc atccccaacc gaaaaaagg 60
 ggtttctgca ccgaaactaa acctcccgcc ccgcacatga gctaaccaac aacattaa 118

<210> 12322
 <211> 264
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139e09d1

<400> 12322

aaacaaaaaa anaaacaaaa aggggcacgg ggagaacaaa aaaacgcaga accccaaca 60
 cccaaaaacc aaaagaccgg caagaacca accaggggga gcaggagggc aaaacggccc 120
 ctaagagcac ccctgaggc aggacgggac agaaatgcga caacagaaaa cccccacaa 180
 ggccaaaccg ccccaaagcc cccggacaga caaacgggtc agaacagggc gagtcccca 240
 agagagcggc cagaccggg gggc 264

<210> 12323
 <211> 317
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139e10a1

<400> 12323

gaaacacgca tagaaaaaag aacattttcg catttaagac agcaaccaac ggaaagggga 60
 aggggggggaa cagaaacggg accgcccggc ctgaacaagg cagaagcaac aacgtcaaca 120
 gctctcgag tgagccgat atgcacaaga ccgggaggaa ccctatagca agacaagcag 180
 gaacagacac ataagtggcg gaccaagcac aaaactgacg ggatgctgac cacagtgaag 240
 aagaacagtc gacatgcaca ttaggaacgg ataccaactt aacggggcaa tgggggggaa 300
 caaacgtccg acgtggc 317

<210> 12324
 <211> 202
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139e10d1

<400> 12324

agaccacaag aaaaacgaaa gggggaaggg ggacaaccta acacagcaag cccacaaata 60
 accaaagaca acaatacccg cactaaccca accaagcata acatatatgg taactctccg 120
 taacaccaga accttcatta agaacagtgg cacattcaaa gcccgagcca ccaaacccttg 180
 agcagggggc tagaaacccg cc 202

<210> 12325

<211> 461

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220139e11a1

<400> 12325

gtgacacaga aattaagcta gagcttcata gtttcttctt cttttctcac cttccttctc 60
 tcccttcaga caaagggaca aaaaatcagt gtgtgagaga gagagagaga aattccaaaa 120
 ccatgtccca cagtcattcta agtttcgect ttgggattct aggtaacatt gcctccttcg 180
 tgtgtcttct ggcaccacta ccaacatttt atagagtttg taagaagaaa tcaaccgaag 240
 ggttccaatc aattccatat gtggctgcac tcttcagtgc aatgctttgg atcttttatg 300
 cctatgtgaa gaccggagaa acgcttctta tcaccatcaa tgcattcggt tgcgtgattg 360
 agacaattta ccttgccgta tttatcactt actgcccga gaaagctagg atgtcgacat 420
 tgaggatgat tgttttgtta aattttgggg gattttgcac a 461

<210> 12326

<211> 520

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220139e11d1

<400> 12326

tccttttttt tttttttttt gagtangaat ggtgcttcat gcttggaata agcttttaca 60
 ggtatagtcc atataataac aatacatcac catataggac tctctttcta tgaaattccc 120
 tatatctagg ggcacaatta attagcgtgg gtaaacaat aacagaaatt acataaacag 180

tgaacaaaa taagttaaaa taactgtaga gagagataga aatagctcgt ataggcaacg 240
 atatctacac cgtctctgcc tcttttcgca cgttctacta atttgacacg tgaaacatag 300
 agagatagag attgaggcat catcactgat cttccaattc catcgaactt cgcagactca 360
 ccctgtcctc tgatttggag atggatttga tgacgacgtt cttgatgagt tccgcttggt 420
 catgagcaac ttggttgca atagtggcg acacttaaga tggatgatctt gctcattatt 480
 ctcttcttgg atctcaccaa tctctatata ttcacctga 520

<210> 12327
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220139e12a1
 <400> 12327

ctcgagccgt cgttgacttt ttcgggttagg gtgagaaggc gcttaccggg ttttcttcaa 60
 tcggtgaacc ttaagtacgt gaaattgggt taccattatc tgataaacca tggcatatac 120
 ttgttcacca taccggttct tctcgtggtg ttagtgctg aggttggaag cctcagcaaa 180
 gaggacctat ggaagaagct ttgggaagac gcgcgttacg accttgctac ggttcttgct 240
 tcctttgggg tcttcgtttt caccttgtct gtctacttca tgtcgaggcc acgtccatt 300
 tacctcattg attttgcatt ttataaaccc gatgatgaac tcaaggtgtc aaggagcag 360
 ttgatggagg tagcaagaaa atcaggcaag ttcgacgagg cgagtctgga gttccagaag 420
 aagatgctga tgccttcgg aatcggcgac gagacctaca 460

<210> 12328
 <211> 566
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220139e12d1
 <400> 12328

tccttttttt tttttttttt tttttaaat tggatgtatc catatgccta atgaggaatt 60
 gaaagtgtag aatttcaagc caggaataat taaatgagaa agaaacagaa aacagatgta 120
 acatttttga agaccaaatt agtactaccc ttattgatcc taaccatacc ctactgata 180

ataagattca taacactagt gccgtcaa at tctgcttcag ttgttgagag gtgcaggata 240
 tctgttgatg caatcaagcc aagggttcct agaaggcttg gtgactcggc gcatggcgcg 300
 ccaaaccaca ctgttgact tgaagccaga gccaaatgcg agttgccaaa cacggtctcc 360
 tcttctaaca ctctcttttg cttccatgta agccaactca taccaa atgc tgctgctaga 420
 ggtgttgcca aagcgatgca gcgtcattct agacgcttcg atgttcttgt cactcagttc 480
 caagttcctt tgaagctcat caagaatggc cttgcttgca gcatgcacac aaaagtgtc 540
 aaaagctagt ttgtagtcag gaatgt 566

<210> 12329
 <211> 298
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139f01a1

<400> 12329

cagaaaccaa ttacaaatta cactctttgc cttttacgtt caacttaacc tttctgctc 60
 ataatcgtaa caacttgcta gaagaagata aagaaagaga aaaagtgtgt gtgtgtgaga 120
 gagagcaatg gctggctcgt gggcacgccg ttctctgatt gatctggcta tcatttcctt 180
 cggatgttta ttgcaattt ccattgctaa ggaggaagcc acaaaattgg ggacggctcat 240
 agggatcgat cttggaacga cctatttatg cgttggtgtt tacaagaacg ggcattgtt 298

<210> 12330
 <211> 299
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139f01d1

<400> 12330

acattcagct ttagaagccc cgacgaaaac ctaagcgaaa aagggaagca caagtaaccc 60
 caciaagaat cttatcatcg ccaccaaaaa agcaagcgca ggggaccctt aaattcccag 120
 ctatcataaa aatttaacag actccgacta atctagagct catcgcgaga atcgccctcg 180
 tcttcttcgc ctgatgcacc accaccgctt ggggctctc cagatctctg atacacagca 240
 ctaatgatgg ggttgcaaac ggcttcaacc accttcagct cctcttcata atcgctcttt 299

gacaaatttg ccccgatgc aaacagtaag gttttgccag catctgccat ccctgagggc 60
 tggatgggat tggatattgg tccagattct gttaaatcat tcagtgaagc attggatact 120
 acccaaacca tcatatg 137

<210> 12334
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220139f03d1

<400> 12334
 cgtttatggt aaaaaaangg anaaanann agtgaacacg gacaagaata cttagtttagc 60
 aatgctngtt gcatgcatac gcccgaagac cagcaaacta ntcggggggcc gcccttttca 120
 aatttgatg ttaaaagttt cgggccccaa ctaaaagaaa cggggcaatg ggtgggtctc 180
 actcagggtt cacagataca cgcaatatat gagtgaagcc aacaataact aaagcatgat 240
 acaatgaaca ctaacacact ccgaagggtg ctacaacaaa tgctggaaca caagatggac 300
 aacacccaaa tctgaggag ggaaaagtta acgagctgaa aattgacgta cacggcaact 360
 gggacggctg aatcgagagc aaggactcct gaaagctgtt tgccttccaa taactccaaa 420
 ctggcaccac caccggaaga gggggggatc atgaccctag caa 463

<210> 12335
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220139f04a1

<400> 12335
 caaaaacaca gagattagaa ttcatttttag aagtttatca aggcaaagaa gaataatgga 60
 agtatgaaaa tggcaagcca aaaatgtatg gaaatggaag gagaaatcaa gagcttaatg 120
 aaggatatga tttcaatcct agcctcccta tgttactgtt atttcataatc atcaagggtg 180
 cccaaaggct tggtgaggtt tttgaccctc tcccagtggt tgtacctatt caccatccta 240
 cctcttcaac tcaccactgt cctcccaaca ggtgtcactg ccttcttcat cacttggtc 300

accaacttca aactcctcct cttcactttt tgattgggcc ctctcacacc aaactcaaac 360
 tcccttcttc acttctcttc ttttgcattg ctccaatta gactaacccc cttaaattca 420
 aatcaaaatc aaaatcaaaa 440

<210> 12336
 <211> 314
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139f04d1

<400> 12336

ataatggaaa atttgacata agggaaacag gtaatgttca atgaaatggg actagtaaaa 60
 ttttcccatc acacactcaa ctacatcggt gaactccttg atggttctct catctgtgcc 120
 atcatgcatc aacggtggaa agaagagcca cgcggcgggt actatcacia acgccaccgt 180
 aatgggccc cacaaggccc aatgcagtct ccatttagcg cccaaccact ttaccgcacc 240
 aaacttcgca acggcacaca ccccatggag caaaaagaag cacgtgacct cccacgtggg 300
 actaacacgt gtga 314

<210> 12337
 <211> 307
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139f05a1

<400> 12337

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 agtggcttca cagaagatag acatgccgcy ggaaatgtga gtgataactc catcttgaac 120
 acagtggagg cgacttggat acgctcaact agtacatgaa aattttttct gaccagggac 180
 gaatatactg ataacaggaa ctggaagggt catactgctt gtatgctgac tacattgaag 240
 actaataaca gccgtgctgc ttgtgagcag atgccacata tacttgcaac tgtggggagaa 300
 caaactt 307

<210> 12338
 <211> 140
 <212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmf102220139f05d1
 <400> 12338
 aaaacaaaa aaggcaaaaa ggggaacggg ggaacttaca aacactcaag ccacaaaaat 60
 ccactaagaa caaaaaaac ccacacacga acctgggtgaa ctgcacccaa aacacacccc 120
 gateccaatc cctgtagtaa 140

<210> 12339
 <211> 129
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220139f06a1
 <400> 12339
 gaaacaggca aagaaaaaac aacaatttcg cgctgacgag agcaacaaac gggaagggga 60
 agggggagaa ccgaaacggg accgcccga aagaacaagg ccaaagccac aaagtcaacc 120
 gctctggca 129

<210> 12340
 <211> 207
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220139f06d1
 <400> 12340
 aacacaaaa tatacaaaa gggggacggg ggaaactcaa aaccgttaag ccgcaaacia 60
 caaaaaaccc aaaaacccca ccacaaccga ccaggggtag aagaggcaaa gaccgtccct 120
 attagcacac cctttgggag gacgcgtag tgatgtcttt tctgaagagc cccctcaggg 180
 gcaaactgag cgacaccccc ctggggag 207

<210> 12341
 <211> 281
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220139f07a1

<400> 12341
 gaaaaaggaa aagaaaaaaa aacatttttag cacttaagac agcaaaaaac ggaaaggggg 60
 aggggggagaa ccgaaaagag accgaccgca aagaacaaga gaaaaccaac aaagtcaacc 120
 actctcgaag agaggaggat atggacaaga acgagaggaa cgctaaagca acccaggcag 180
 gaacagacac ccaagtggag gccgaagccc aaaacagacg aaacgcggac aaaagtgaag 240
 aagaacagcg gtcatgcaga ttaggaacgg atacaaaatt a 281

<210> 12342
 <211> 221
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139f07d1

<400> 12342
 aaccccagac gaaacaaaaa aggggaaggg gacaacacaa gacagaaaag ccccaaacca 60
 ccacaaaccg gaggacacga ccgcaaccaa caagaactag acagatggag gacccgcccc 120
 taagagcagt gccaacgggg gcggaaccaa acacaagcac caacacaaca gccccaccag 180
 gggcaaggtc gaggcaaacc cccgggggga accacccgac c 221

<210> 12343
 <211> 162
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139f08a1

<400> 12343
 gaaacaggca tagacaaaag aacatttttcg catttacgac agcaacaacc gggaagggga 60
 aggggggggca ccgaaaccgg accgcccgcg aagaacatgg ccaaggcaac aacgttaacc 120
 ccactagcag tgagccggat atggaaaggt ccgggaggaa cc 162

<210> 12344
 <211> 230
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139f08d1

<400> 12344
 tattttccacc tttctgggtt aaacctttca aaacacaaaa acccaaaagg gggacagggg 60
 gaaaaacaga cccgacaaac cacaaaaaaa ccaangacag gaaagcagac cacaaccgaa 120
 cgagccngga ngaacacaac aaccggaaaa acaccacacc caaagcgagc aaggggacaaa 180
 gaggcgacca aaaaaacagc cgacaaacgg gaaagcccag aaaaacgcca 230

<210> 12345
 <211> 163
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139f09a1

<400> 12345
 gaaacaggct ttgacaaaag aactttttcg cacttttcgag agcaacaacc gggaagggga 60
 aggggggggca ccgaaaccgg acctcccgcg ttgaacgtgg cctagcccac cacgttaacc 120
 gctctggcag tgnnccggat ttgctcaaaa ccggaacgaa ccc 163

<210> 12346
 <211> 200
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139f09d1

<400> 12346
 aacaccaa an naaacccaaa ggggaacggg ggaaacacaa aaccgcaa cccccaacaa 60
 ccaaaaacaa ccaaacccca ccaaaaccga acaagcgaag aagagagaga aagagccccc 120
 agcagcacia cctgcgtcta gaagcgaaaa ggatgcattg cccgaccacc cccaccatgg 180
 ccaaacagac gcaaaacccc 200

<210> 12347
 <211> 218
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139f10a1

<400> 12347
 gaaacaggca aagacaaaag aacattttacg catttaaagac agcaacaacc gggaagggga 60
 aggggggggca ccgaaacgag accgcccgcga cagaacaaga ccaaaccaac aacatcaaca 120
 gcaactggcag agggccggac atgcacagga ccggaacgaa cgctattgca acacaagcag 180
 gaacagacac gaaagtggag gaccaagcac cagaccga 218

<210> 12348
 <211> 176
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139f10d1

<400> 12348
 aacaccaaat taaacaaaag ggggaacggg gacaacacaa aaccgcaaac ccgcaaacac 60
 ccaaaaacca caaaacccca ccacacccaa ccaggggtag gaagtggaat gaccctccca 120
 atcagcaciaa ccattggtaa gaagcgacag acaagctttt cccaaccacc cccacc 176

<210> 12349
 <211> 364
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139f11a1

<400> 12349
 attttgacca ttatggttgt aatattagtc tttatcttta ttatccaggg tcctggttgt 60
 gttactgtga agaagaccgg tgcggccttg atcattggca tttatgatga accaatgact 120
 ccagggtcaat gcaacatggt agttgaaagg cttggcgatt atctcattga tcagggtctc 180
 taatctttgc tttatgtctt gttatcgtgc atatttcatt ggcttctgta caagtttttg 240
 catcgacctg gactggaatg ctttgattgc agtgaataa tcttggtgtg agtatgaaaa 300
 gtcacgggat ctgcgtgtag tgagaaagtg tttgatgctt gagaaatgat gactataatc 360
 tcta 364

<210> 12350
 <211> 360

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220139f11d1

<400> 12350

aaaaaaaacc ccccctttca aagaaaagaa taacaaatta gagccgacca tcgaactcca 60
 gatcgccccg aaaaactacg atccacagaa ggacaagcgt ctcaagggtc ctgacaagct 120
 gcccacatc cctcgcccca agatcccaat ttgcatgctt ggcaagctc agcatgtccc 180
 aagaggcaag agaagatagg actggactgg atggaaaagg aagccctgaa gaagctaaac 240
 aaaaatcaaa aaccggagaa aaaactaact ttaaagcccc atgcatggt aacaactgaa 300
 acagttttta aacacaatgg tggaattccc gggactgatg ggaacaaaga aaaagcccat 360

<210> 12351
 <211> 381
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220139f12a1

<400> 12351

gtgggcccct tcgaggattt tacatttagt atgatccaaa aggaacatcg ccatctgggt 60
 ctggctctgc tgaagaccag caccatctga gtgatggaga aaatgctacc accgaagaca 120
 actctaaact gtatggagat gtgtgacagg aaccaattag aactgcaaag gactcaacaa 180
 tctgaatga taacgggaca ctgacttcac tgaatggaaa ctacaaggca caagagtcaa 240
 gtgaaaacgc aagagctgag gataaccac gatggatc agtggaagaa gggggaagtg 300
 gacagtgtta ctccaacttg gctaggagag gtgggtctca atgatatcga agactatagc 360
 tgagtataga tgtgttattc a 381

<210> 12352
 <211> 338
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220139f12d1

<400> 12352

cccaaaggc ccaaaccac aaaaccctaa attagcccaa aaatttttaa aaatttgaa 60

gggcccccat aaccccgtaa aaaactcaac aaaccccaaa aataaccac cccatttttaa 120
 taataaaacc ggcccaaact ataaacaaac ccccgagggt aaaacccaaa gcccactg 180
 gaaaaggcct aaaaacaaaa ggggactaaa acagggggaa aaaaaataaa aaaaaaagga 240
 aattaaaacc ccaacaaaat ttccaaaaac aaatttttaa aacacctttg gaaaaaaaaa 300
 ttgcgagggg accataaaac caaaaaagcc aatgccaa 338

<210> 12353
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139g01a1

<400> 12353
 gttgcgttgt gtgtgccatt cccatttccg ccatcgctac cgccagcacc accgatcgct 60
 ctctcaccca ccccaactga taccgtaac ctcttcacct tcctctcctt ccctaaccta 120
 atttaaaact aaaaaaaaca caaacaaata aaacaaatgt cccctaaggt tggggcacgt 180
 caccatgct tctgaattag ggtttccatt tggatttcgc tgttctggtg cccaattgag 240
 cgacgcaaaa gggtaagagg aaagggatga ggattatggt ttggggatcg gagaatcgtg 300
 ttgcgcatat tgctctgtgg gaccctctca tgcaccgctc aagctcatca ntaatagggt 360
 ttctctctcc tccaccaccg ccatctgtcc cgctcgcccc cttctcgatt tcattcttagg 420
 gttttcagat tccacctgct cccttcccaa ttctcttgga tcca 464

<210> 12354
 <211> 149
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139g01d1

<400> 12354
 tccttttttt ttttttttga tttaaatttt ttctatagaa ttatttttga actgcaaata 60
 gggacgcacc aattacatca acaatgcac caatcagttt tatgtgggat ttacaaccat 120
 ttcagtccca acaaaaataa atttatgaa 149

attggaatca atatagtgat taaccatcta aattacaatt tcaacaattc ttccttcatg 120
 taatgaaaat ttcatttcaa atgcagcgtg aggagctcgg gattatcaat taattgcttc 180
 cactcgttgc aaaatcttgc aacggttgct ccgccaaga ctctgtgatc tgcaccaata 240
 ttaacattca cgagggatgc aggatacaca tttccattat cagcaaaccg tggaactttc 300
 tgaattctac caacggcaat aatggagact tcaggcagat tgataagggg ggaaccaaac 360
 tttccaccta ttgctccaat gttgcttaaa gtgatagtac caccacacat atcctcagaa 420
 gttaacttgc tatttg 436

<210> 12358
 <211> 137
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220139g04d1
 <400> 12358

cgctccttttt tttttttttt ggcttaaaga ttttatatac atacatttca tcaaagggtc 60
 aggggtatca tccaatgctt tacagaggaa gttttctggg atgtccaacg gaaaatgata 120
 ttttgggaaa actagca 137

<210> 12359
 <211> 353
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220139g05a1
 <400> 12359

cactcataac acaaagcaca aagcatagct cattcttgag ttaaaaaatg gcagcagctt 60
 cttccatggc tctctcatcc ccatccttgg ctggcaaggc cgtgaagctg ggcccatcag 120
 ccccagaagt ggaagggtg agcatgagga agaccgtcac caagcaggtc tcctcaggaa 180
 gcccatggta cgggccagac cgagtcaagt acttgggccc attctctggc gagcccccg 240
 cctacctaac cggtaggttc ccaggcgact acggctggga cactgctggg ctttccgcag 300
 acccagaaac cttcgccaag aaccgtgaac tcgaagtgat ccactccaag tgg 353

<210> 12360
 <211> 373
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139g05d1

<400> 12360

aaagcatgta acaccaagca ggatacggac gcacaagggg attcacatta tcagaagtac 60
 tccaccaaac acaaatctaa aaactctcaa aagtcatttc gttctttgac gcacacttac 120
 cggggacgaa gatggtggca taggcccagg cgttgcagct gacaggggca gcaaggtgat 180
 cggcgagggt ctccaatgga ccctatccgg tgacaatggc ctgaacaaag acgccaacaa 240
 tagagaacat ggccaatcga cggttcttga gttccttcac cttaagctaa acaaaagcct 300
 gtgggtcatc agcaaggccc aacgggtcga aactgccacc tgggaagaga ggggcagtga 360
 cctcaccgag ggg 373

<210> 12361
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220139g06a1

<400> 12361

cgacaacgct atcaaaaacc actggtactc caccttgaag cgcaagtgtc cttcaacgat 60
 gatcgacgac aacacccaac cgctgaaaag atccgtgagt gccggcgagg ctattccagt 120
 ctctactgga ctctacatga acccgccac accgggtagt ccctccggat ccgatgtgag 180
 cgagttcagc ttaccgggng gannnnnann nnnngngnnn nnnnnnnnnn nnnnnnactg 240
 gcaaggttat accaccgta gaaaccacgt tgccttcaa tgacccttca actttacttt 300
 ctctatcact ccccggtggt ggagttggtg actcatccga agtctccaat cggacaactg 360
 agccgattca ttgtacaccg tcaatgccac atcggtcgaa tactatgcct ttgctgccaa 420
 tgatgacgtt cggtttttagc gacggtgatg gcgccgttta attgtagcgc atagattcgg 480
 tcggtgatg 489

<210> 12362

<211> 278
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139g06d1

<400> 12362

aacccaagn nggaaaaaaa aggaaaagg gacaacataa atttcagatt ctatctaaag 60
 ggcaaaaaca ccaatctatc cccctctttc ttccgaatac cattctcctt cggagcgagc 120
 gagttatggc ccacgggaca taaaccataa ttattgccta aaaacattga ttaaaaataa 180
 aaaagaacag ggaaaaaac agatccttgt tatttttttc ccattaggag gagcaaaaga 240
 acaatctttt ttccgatgat gctttttacc aataaacc 278

<210> 12363
 <211> 273
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139g07a1

<400> 12363

cagggttaat gcatttcctt ttgccttttc aatttttgaa gttgattatt gtggaagggg 60
 tattgatttg atcgattatc ttttgttttg tgtttgcga ctttgaagaa taccatgaca 120
 aatgtcatga atctttcgtg tcaaataatt ttagcttcag atcgagacat gtgtttgtta 180
 tatcgcaaat cttataactca ggaagaacag ctagtgtgac taattgtact tttgaataaa 240
 agacataata agaacagtgc ataatgttat cgg 273

<210> 12364
 <211> 262
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139g07d1

<400> 12364

atgcactgtt cttattatgt ggggtattcg gaggtacaat tagtcacact agctgttctt 60
 cctgagtata agatttgcca tataacaaac acatgtctcg atctgaagct aaaaatattt 120
 gacacgaaag attcatgaca tttgtcatgg tattcttcaa agtcgacaaa cacaaaacaa 180

aagataatcg atcaaatcaa tacccttcc acaataatca acttcaaaaa ttgaaaaggc 240
 aaaaggaaat gcattaaccc tg 262

<210> 12365
 <211> 363
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139g08a1

<400> 12365

ctgatgcata tgatgacttt gctgttgaaa gatataacta tgagcagaca gagccagcaa 60
 catataacaa tgctcctctt attggtattc tggcaagact aggtggaggt catggtggct 120
 ataaccagct tcttccagtt gttgttccag ctcttaagcc tgctgttacc aagcctcaac 180
 caacccccag tccaagaca actccttctc cagcttcatg gtcaggccca atttccattg 240
 aacagaaaag gaccacctca tgggttgcca atggaaaaac ttattacaga tactcaacag 300
 tcgtgactaa caaatctaac aagagtctca attctctcaa tctttcaata tccaagcttt 360
 atg 363

<210> 12366
 <211> 291
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139g08d1

<400> 12366

tattatggaa attcggtttc accgccttgc acaaaaacat aatacgaggg ggcacacgcg 60
 ggaactatgt agggaaaacc aaacgctaca ccgcttaca catccaacac agaaaagaca 120
 tgcaacgctg ttgaaaaaga caggtgagga ctcttctctg aaatattgag aagttcacct 180
 tgtttttttt aacttctgaa caacactgga tcaactaccg gatcgtaaca cccactgcat 240
 aaaagacgca aagcggaaaa gaaagaggga gagccccgcc tctaggatgt t 291

<210> 12367
 <211> 259
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220139g09a1

<400> 12367

ctggtgcatg gtgcgaccac actgtttaag gtttccaggg agcacagagg caggggcagg 60
gctgggaggt cataggctgc aatattgtac agatctacca gttactggga tgagtacgtt 120
tggggagggg ccccgnggt tcttttgta cggaagaaca ttgtacctta aatttgctac 180
ggcttctgag ctggtcaagc atgctggagc cttctgggga ggccctgatt attgagaact 240
cagacgggat aacaagacg 259

<210> 12368
<211> 314
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220139g09d1

<400> 12368

aaggcattag atgaaactgt cgggcaatgg ggagctgttc agtttttcat gtgtaaagaa 60
tacacgattt gatttaaata catatatact atatgtgaat gacaaaaatt taaagagaca 120
cactctcaag taccacttaa tcaattctga atgctaaatc ttgagtcgaa cattggcccc 180
aggcagctat attcaggggg gcaagctcca ttgcttctat ttctcaaagc tttgtttctg 240
caaaattacc ttgatctttc agttgagaca aaacaacgaa ggttaccggg gcaactcaa 300
catatgggat actt 314

<210> 12369
<211> 269
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220139g10a1

<400> 12369

gagaaacgca aagaagaaag aaccttttag catttacgcc agcaacaacc gaaaagggga 60
agggggagaa cagaaacgga acccccgca aagaacatgg gaaaaggaac aaaatcaaca 120
gctctagcag tgggcaggat ctggtcagaa ccggaacgaa cactactgcg aacacaagaa 180

ggaacaggct cccaattggc ggaccacgcc caaaactaac gagaacgtga ctacaatgaa 240
gaagaacaga ggacgggcac agtggaac 269

<210> 12370
<211> 312
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220139g11a1

<400> 12370

acatacatca tcaactgata tataattcta gatttcttgc agtctattat tagagagaag 60
aattgagttg gaagaacca gaaaaagaaa caaaaaataa ataaaacgat gtggtggcca 120
ttcancacaa atggaacttt tgggnnttca tcatattcta ctgccgagga agttactcat 180
ggaatcgatg gaagtgttct cactgctatt gttacaggag catctagtgg tcttggtgct 240
gagactgctc gtgtccttgc tttgggtggt gtccatgtga ttatgggggt gatagatatg 300
attggtgcaa aa 312

<210> 12371
<211> 610
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139g11d1

<400> 12371

tccttttttt ttttttttct cttaaaaatt ttaacttcat atagattaac ttaataacag 60
gcacaatatg atcattggca tttttattct ctaatacagt attccattta cattgacaat 120
tatcattatg cattttactt agtcaaattt atgctaaaat ccacaactt cttggccaaa 180
ttcatgtccc ttccatgtga gtatacttct gcaagattat tatcttcaa atacttgccg 240
ctgattccac tcaattgtgg gtgcaaggct acataacatg ttgttgatgc tccttgctgc 300
acattttttg ccatatatcc caatatcttc tcgagtccaa atagccatgc tattttgtgt 360
aaaccattta ataaaccact atgaatgtga atattggtgg aaacagtggc tcctggatga 420
acagaattag cagtaatatc tattccatct tccttgagac gtcttgcgag ttcattggca 480
tgtaaaatgt tagcaagctt tgattggcca tatgcacacc aattggtgta acttgattgg 540

tcgttaattt tgtcaaaaat gattccttca cgatacgtga atcgataacc attgaggaga 600
cattaataat 610

<210> 12372
<211> 576
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220139g12a1

<400> 12372

gttcaaagat ccatgtgttg ctgctttatt ttgatgtcac aaaagaccgg aactgggctc 60
gaggcattag aagtcccaaa ttccccggcg ttccctatac tttcttctca cagaggcaag 120
gatgtaaggt atctctgtac caagatgctc atgtacctga taattttgta cctaacatac 180
ctcttgctgg aggcaagaat tatgaggctc ataggtgttg ggaggatata tttgatgcaa 240
tcactaatgc tagacacttc atatacatta ctggttggtc tgtttatact gaaatttcct 300
tggtgagggg ttctaggagg ccaaagcctg ggggagacca aacacttggt gagcttctca 360
agaaaaggca aatgatgggg ttaaggtatt gatgcttggt tgggatgata gacatcagtt 420
gggttggtga aaaaagatgg actaatggct actcacgatg aagaaactgc acagttcttt 480
gagggcctga ggtgcatngt gttttatgcc cccgcaatcc tgatgatggt ggtagcattg 540
ctcaggattt acaaatntct accatgttac tcatca 576

<210> 12373
<211> 598
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220139g12d1

<400> 12373

tccttttttt tttttttttt tttttggggt agaatttgaa acattgatta gaaaccagtg 60
ggagccggac ccaccaacaa catcagataa ctaaaatctg tcaactgaaat cttcagaaaa 120
atagcagaaa aaacatcttc acaagacatc acagactata ttaagattat tactaagtag 180
taatgaaaac acagattagg atgtaagcaa taacaagttt gtaacaaagt acaaaatcaa 240

attaagtagt gagaataggg gggaggtagt cagctttgcc accaagaatg cgagccttgg 300
 tgtcgggaaa gaattcaaat cctggcagct cggtgacatc ttcttactg gcaaccccgga 360
 tggggtagcg gagaaggtga ccgggaaggt catgctcaag tgactcggta gaatacagat 420
 cccaacattt gtcagcaact tggttcacct tgttaatgca ttcatactt tctggctgga 480
 ggaaagagtc atgaagcatg ccaaggtgct cataccacaa tgacatgcgg aaaccgtgaa 540
 ttgaccacg tgctggctgc ctggtagcca aatgataggg ctgataagca cccatggg 598

<210> 12374
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220139h01a1

<400> 12374
 ggggtgcggtg ctgggaatat ggcgtttgcg atttaggggtt ccgttagtgt tgaaactgaa 60
 caatattgat gttaccatgg tctacccgga gccttggtgt atgccacgac tttttacggc 120
 tggatatagct gaattctatg agggatatta cgcaaataag ggtgtaaata tcattaaagg 180
 aactgttgct gttggattca cttctaattc tgatggagag gtaaaagaag tcaaactaaa 240
 ggatggcagg gtcctggaag ctgatattgt tgttggtggt gttggaggaa ggcctcaaac 300
 agtcttagtc aaaggcangt ntgaagagga gaagggtgga atcaagaccg atgctttctt 360
 caaaactaat ctctccgatg tatatgctgg tgggggatgg tgctactttc cctttgaaat 420
 atacgggtga atgagaagaa gtgacatggt gatcattctc gcaaatacgc 469

<210> 12375
 <211> 77
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139h01d1

<400> 12375
 aaaaccccg aaacaaaaa aatattttat aaaaaatccc cggccacccc aaaaaagaa 60
 aaaacccggt tttggct 77

<210> 12376
<211> 339
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220139h02a1

<400> 12376

cttctacttt cacctaaacc aagcacttgt tgatgtagct tcggagccca ctactgagaa 60
gccgattctc gttcttggta tcaatcactt aagttatttt gggatcatgt tggagcatgt 120
tttggctaaa atcatttcac gcaacaacag actgatatat ctctaagaag gaacttagca 180
aaacaaaatg cataaatggt taattttttt ttaggataaa ttacgctgac acttcctgag 240
atTTTTTTaa attgcacata atctccctgc ttttttaatt tttacaacag ccttcctttt 300
ttttcaaaca gataaagggg tgtagtgtaa tatataaag 339

<210> 12377
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220139h02d1

<400> 12377

tnntatanan tttttcaatc tggaaattaa agagggatat aattcaaccg ggattcaagg 60
aataaactac gtatcacatt ttcaagtggg ttaatgactt aacgataagc atcaatcgac 120
attctacaag ataaaatcat ttcttggcct ccacactcga acaagtttgg cgtagaatga 180
gcaagtagcc accagtggct cggatttctc acctatgcga attgcttatt ctttctgcca 240
aactgctcca taggcaagag aaacatgcta ctgcaagtt tacgacacgg cggaattgcc 300
gcctataatg gcgacaatag caaaaccatt gcgcatacaa gcagacaaaa ccaagcctgg 360
aatgaagggg tgggtggctaa cccttcaaac 390

<210> 12378
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220139h03a1

<400> 12378

aaggacttca acagggccac agcaattgca tcctgagttc tacagatggg tttggttgta 60
 ggattggcac ttgcattcat tcttgaaca ggattgcaact ttggtgctaa aatatttaca 120
 caagatgcta atgtcctcca cctcattcaa attgggatcc cgtttattgc agtcactcaa 180
 cccctgaatt ctttagcatt tgtatttgat ggtgtcaact ttggggcatc tgattttgca 240
 tattcagcct tctccatggg tgtggtggca attccttagca tcatttctct gcttattttg 300
 tcatccgctg gtggtttcat tggaatttgg gttgctttga ccctctnata tgggtcttaa 360
 ggcatttgct ggcttcttga gaattg 386

<210> 12379

<211> 325

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220139h03d1

<400> 12379

cgggccctat aagggggccg aggtaaattt ttcaacaaaa tcccccaagc ccaatcaagc 60
 ggggggaatg gcctagtttt tcaaaaaaat ttttcaagcg atttaacaac ccaggggggg 120
 cttatctcac tttaagggaa acagcaaacc ccaactgaaac ctgggcctaa tgtgaaccta 180
 taatttgggg gtaggccatg ggcacccatg agctccttaa aaactcccaa gggcctgaac 240
 ccgttccaat tctaaagaag ccggggaatg ccctaagacc catatggagg ggcaaaggaa 300
 cccaaattcc aagggaacca ccccc 325

<210> 12380

<211> 343

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220139h04a1

<400> 12380

agatcatcga tacgctggtg ggcctttccc tggtggacga ggtgatgaag atcacgccgg 60
 ttcagaagca gaccggggcc gggcagagaa cccgtttcaa ggccttcgtg gtcgtcggcg 120
 acaacaacgg ccacgtgggt ctaggcgtga agtgcagcaa ggaagtggcc accgcaattc 180

gtggcgcgat tattctcgcg aagctttcgg ttattcccgt gaggaggggt tactggggga 240
acaagattgg gaagccccac accgttccgt gcaaggttac cgggaagtgt gggtcggtta 300
ccgttaggat ggttccccg cctaagggtt ccggtattgt ggc 343

<210> 12381
<211> 133
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220139h04d1

<400> 12381

agccaattaa attaaaactg gggggaatgg ggatccatac agagacatac caccgtctat 60
caaaacaaaa agtaaagcac agaaccaaca aaggtaaata acaatgtctc taaaacatcc 120
ataaaaccaa aac 133

<210> 12382
<211> 143
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220139h05a1

<400> 12382

ggttgaatag atctcggttc atatgtttct catttttctc tggtttttgg caaaattggt 60
cggatggatt caatttctct ctgtgtaaat acttcaactt ttccaattct caccttcgca 120
tgttgattcg tagtcagatt ttt 143

<210> 12383
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220139h05d1

<400> 12383

ttntttnnnn tttttgtgtt tactatTTTT ngcccccttc atttactcta ggcggagggg 60
aattattcca ttacaaaaaa acatcgctat ttccactctt ccgttactgc tttgtagctt 120

[illegible]

<223> Clone ID: jC-gmf102220139h06a1

aatctctgac	ctcttcttca	catctttctc	cattaatacc	cttccctctc	tctcccatgg	60
agttgatcta	cctactctat	ctggttccaa	cgttgtacgc	gtgtttcctc	atatggaaga	120
tgttggaaga	gagaaggga	agggagtgtt	acatcttaaa	ctaccaatgc	tacaagcccc	180
ccaacgacag	aatgctcggc	accgagttct	gtggcaagct	tatcagacgc	accgaaaacc	240
tgggccccag	cgagtaccgc	tttctcctca	aagccatcgt	cagctccggc	atcggcgaaac	300
aaacgtacgc	ccaagaaaac	atcttcgagg	gccgcgaggc	cactcccacg	ttgcgcgaca	360
gcatacgaga	aatggaggga	gttctttcac	gacagcattg	gaaaactcct	cgcgca	415

<223> Clone ID: jC-gmf102220139h06d1

atgcaagtat	ataataatta	attaaaaccc	atgatctggg	gaacaagagc	taacccaaaac	60
aattacagat	atTTTTgtcg	TTTTctTTTT	gtcagaaaaa	aaagaagaaa	ctcgTtatta	120
taacacattt	aaacaaataa	tgcaaaccaa	agttaaaaaa	aaaaaaccat	aatacgtacc	180
cttttgacgg	tgtggcaaga	agcagcacac	accttattgg	gtaatgaacc	ctagaggccc	240
gggttcaata	ataataatat	ataagtgtat	agcttacaga	aaaatttaat	gcacaattac	300

ttgtggcact aactaactaa gcatgctttt ttttgacaat taactatttg aacgccttac 120
 acttgtctta gcattacatt gatggacact ctccggtgga ctagaacctg cataatgagc 180
 attggcactg tctaagtggg tgccaaaata cattgagcgg gggactagag tatcgctgat 240
 ctagacaaag gctataaaac ttcttcggta tgagacaata ctggctctat cacctg 296

<210> 12389
 <211> 340
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139h08d1

<400> 12389
 atggcgtatt attatttcat tggcttaggg gtgaaccctt ccactaatgt actcatctag 60
 agttccagt aatggcacgt tagagaaatt atgcacatac tcaagatgcc ggaaaattgt 120
 aatgatcaag taagagatat gtaacatgtt agccacataa tggcacatat aacttttatt 180
 ctctctctct accataactc ggcaatgaag ttagtattaa ttgtatatta gttggctgca 240
 tcatcatgtt caggaacctg atcatgaaca gaaaaagttg atcctctacc cacagggaga 300
 taggaccacg caatggctgc agtaccaact gcaatggcag 340

<210> 12390
 <211> 347
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139h09a1

<400> 12390
 gcagcacaga ttagggaaaa cggctttgcc gccgtagaag aaaacaacca tgggtgcgcgt 60
 ctctttttac aggaactatg ggaagacatt caagaagccg cgtcgtccgt acgagaagga 120
 gcgtctcgac gcggagttga agctggttgg tgagtacggg cttcggtgca agagagagct 180
 gtggagggtg cagtacgcgc tcagccgcac acgcaacaac gcgcggaacc ttctcaccct 240
 cgacgagaag aaccgcgcgc ggatcttcga gggagaggcg ctgctccgaa ggatgttccg 300
 ttacgggtctc ctcatgaga cacagaacaa gcttgattac gttctcg 347

<210> 12391
 <211> 305
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139h09d1

<400> 12391

tccttttttt ttttttttaa ttaaaagttt taatacttta aaatatctaa gtggacaaag 60
 ggataatgtc actcaatatt atctcaaaca aggaacggaa ggatgaaaat gtataacaat 120
 aaaaaaacia taaactaggt acgcaaagta aaaggtggca taaggtctaa tagcactaga 180
 aaaagacatg attaaaagtt taatcctcgg cttcctcctc tccatctcca cctgcggcct 240
 tcttagcagc agccctttgg gttcttctct tcactcttcc agggcgacca ccaccaaggg 300
 gactt 305

<210> 12392
 <211> 390
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139h10a1

<400> 12392

aacgcgatta tgaggaatta aagatttaca atttttaacg acgtgggttt cttccagggt 60
 taagcatgat tagaggaaca gagaatgtta ttttgccggt aatagattag aggctgaatg 120
 atgatggatg aatgagtgtt agttgcagca atttgactat cttccgtaag caaagagcag 180
 tagctggaac aaacaacgaa cgaacactgt aagcatgaac aagcgccaag aagatgtgcg 240
 caacatagct actaccctcg acttcagatt caatcagacc ctcataaatg ggcaagggtg 300
 accccaatt cttctctttt ttctcttttc agatcgaggg gttattattg cttcgtcgag 360
 gacaattttt tccattgtct attttctaac 390

<210> 12393
 <211> 264
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139h10d1

<400> 12393

tattatggaa atcggatttt aacgcttttg aaacaaacac ccaaaaagcg ggcgccgggc 60
 cagctgctaa gggaacactg acacgaagca cagacggccg aaccagcagg aacggactcg 120
 cgctagtac caagctgcgc ggggagcacc gtgacaaaag gttacaagga accgtacaag 180
 gagaagtggg cgaaaaaaat cccacgcagc accacccgct gccccagcac cctcgtcgag 240
 aagaaccgc accggaactg ggaa 264

<210> 12394
 <211> 372
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139h11a1

<400> 12394
 ttcagattca gttcctcttt gcttttttct ccattcaaaa caacagaacc aaactcggaa 60
 ccaaactcag aaccaaactc gccaaaacta gggttttgca ttgatggcac tgtgcaaccg 120
 cgtcagatcg ggaatctctc tcttcaccaa atccacgttc cttacttgcc agcgatccag 180
 tctccaacga tccctcgttg cccctttcat ttccctcgcc tccagaaatt acgccaacgt 240
 gccggggcaa aaggaaacca aagttaaggt ccctctggct ttgtttggag gatcaggaaa 300
 ctatgcctct gctttgtata ttgcatctgt gaaagccaat gcaatggaaa aggttgagac 360
 tgagcttctg ca 372

<210> 12395
 <211> 538
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220139h11d1

<400> 12395
 tccttttttt tttttttttg gaaagagggt tctattattt gcaaaatgat ggcattccat 60
 gccataaaaa tctacatcca cacaatttat aatgaacaag aatgtaatac ttctttcttt 120
 aaaccatgat aacacagatt gtcaggagag attatagtct tctagatgtt ggcaatggac 180
 acgggctctc ggaggatcct ctccatctgt tgtgccctgg tcttaattga catgtcaaag 240
 accttctggc taaattcaag cacaagccca ccaagtatgc ttggatcaat cttctgttca 300

agatgaacct tcgttccaga acctattatt tcttgaagag tctccttcaa tgccttttcc 360
 tcttcagggg gaagaggaac aacagtgggc acagtcgctt gcacttctcc cttatatgcc 420
 attgacaact gtgcaaactc ctttgcaatg gtgtctatgt ttttaagcct tccattctca 480
 gcaacaataa caaggaagtt ctttgtaaca tccgaaaact tggctttccc acaaatat 538

<210> 12396
 <211> 430
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220139h12a1

<400> 12396
 ttcagatgca tcaccttttt gcttttttct ccaaaacaaa caacagaacc gaactcggaa 60
 ccaaactcag aaccaaaactc gccaaaacta gggttttgca ttgatggcac tgtgcaaccg 120
 ggtcagatcg ggaatctctc tcttaaccaa atccacgttc cttacttgcc agcgatccag 180
 tctccaacga tccctcgatg cccctttcat ttccctcgcc tgcagaaatt acgccaacgt 240
 gccggggcaa aaggaaacca aagttaaggt ccctctggct ttgtttggag gttcaggaaa 300
 ctatgcctct gctttgtata gtgcatctgt gaaagccaat gcagtggaaa aggttgagac 360
 tgagcttctg caatttgttg aggcagtgaa gaatagtccc atatagtcac agcatataag 420
 ggacttgtct 430

<210> 12397
 <211> 492
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220139h12d1

<400> 12397
 ggtaagaggt ttcttttttt tgcaaaatga tggcattcca tgccataaga atctacatcc 60
 acacaattta taatgaacaa gaatgtaata cttctttctt taaaccatga taacacagat 120
 tgtcaggaga gattatagtc ttctagatgt tggcaatgga cacgggctct cggaggatcc 180
 tctccatctg ttgtgccctg gtcttaattg acatgtcaaa gaccttctgg ctaaattcaa 240
 gcacaagccc accaagtatg cttggatcaa tcttctgttc aagatgaacc ttcgctccag 300

aacctattat ttctgaaga gtctccttca atgccttttg ctcttcaagg ggaagaggaa 360
 caacagtggc cacagtcgct tgcatttcta ccttatatgc cattgacaac tgtgcaaadc 420
 tttttgcaat ggggtctatg cttttaagcc ttccattctc agcaacaatt acaagggaag 480
 ttcttttgaa ca 492

<210> 12398
 <211> 416
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140a01d1

<400> 12398
 atgtctgtca gattctatcg ggaaatcatt tggaatatat ttcccggcta ctctgcggcg 60
 gccgccttt tttttttttt tttttttttt tttttttttt tttttttttt ttttttagctg 120
 aaataggcat attcataaat ttacacaaa gggttgtcat catggcccct tacaacaaca 180
 aagtactaca tctaactatt ctttaaaaat ctaacacgat gattcaaagg accccctgtt 240
 gtcagcagga gaacttaaat tctctcttgc acaacaacca agccccctaa accaaaacaa 300
 ttcccaccta aacacaaact ttaaaacatg gtagacaatt aattagcttc tatattacat 360
 aatcagacct tgaaatattg gcccccatgg aaaaactagg catcttatcc aattta 416

<210> 12399
 <211> 526
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140a02d1

<400> 12399
 caaattatgt tcctgatttc cttaattctc aagagtcggg aggcagcaat agaaggcaaa 60
 tgtttcctaa aaactcaact gtaaaaccag taaaaatgta acaaggaatt ttcatcctca 120
 atgaccaata gaatttttga aaaagaaaat cacatttctt caacaaacga cagtcataac 180
 tcttctctgt agtagccatc tagttccttg gtttattgat acaatagctg aatagcaatg 240
 gatttccttg tagcaggcca tactagatta ttaagaccaa agttaagaat cagcgccagt 300
 gagtgtctac aattcaacct gcaaacttgg tttatatctg attcaatgtt tagcattgac 360

catgtttctg atgacatatt gtaagatgcc tccatgggtg aagtaagcta gttcaacctc 420
 tgtatcaa atctcagtgtag atacaaatga tttcccggca tctgtcacca ctgtgacatc 480
 ttggccgggt cgtatttcat tcacattgct tggtagatca atgggtg 526

<210> 12400
 <211> 239
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220140a03d1
 <400> 12400

cttgggcacc atggaataaa acaaaaaaca aaaaccaaaa aaaaacaaaa aaacaaaaaa 60
 aaaaataaac cagcaacaac aaccagagca aaaaaccaca acacaaaaga ccaaaaccac 120
 ggaaccaag aaaggacagg tacgccgcct caaaacaccg aatggacacc caaagaatgg 180
 ccccaaaact gccaccacca aacgagcaca accgactgga tccaaaccac gtgcaaaac 239

<210> 12401
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220140a05d1
 <400> 12401

aaacgagtga cttcatcgca tgtatcatgc gtgcataaag tacaccaagt gtccatcata 60
 aggtctagct attaccatac acgatatcaa tccatgacaa tttcatagcc caacatcaac 120
 gacttatact tcagaactca gcctaaaaga tctttgttta gctccacatt caacacctac 180
 cacctattta cattctacaa ctgaatgcag ctcaactgct atcactcaga attatacgtt 240
 tgctctcgct ggctcctggc atctgctatc ttggattctg tacgtccaat ctctcttat 300
 cacaggagcc ttccttctgc ctcaagacgg atcggaaaag aggagagtta acatgggtct 360
 atgcatggcc gtatactgat cgctaagatg aaacctt 397

<210> 12402
 <211> 258
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140a06d1

<400> 12402

aaacgattga cttcattgca ggagtaatgc gtgcataaag tacacctagt gtacattata 60
aggactagtt ataaccatac acaagatcaa acaatgacaa tttcaacgcc caccatcgcc 120
gacatatact tcagaactca gcctaaaaga tcttagttta gcaccacatt caacacctac 180
caactattta cattctacaa ctgattgcag atcagctgct atcactcagg aaattatagg 240
tccgatctcg ctggcttc 258

<210> 12403

<211> 399

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140a07d1

<400> 12403

attcataatt taaacgtttt acttaattgc atggataatg cgggcataaa gggcaccaag 60
tgtacattat aaggagtatc aattaccatg ttatgattca atgacttcca atatcatgat 120
acacataact gggcctaaac caaaagaatg cactctgacg gagcttcggt tccctccacc 180
tgcaatacag gggaggacat tacaaccgac aagtgcaaac tgccaacccg atatgaattc 240
caaaccatag ggactatgtc tctgacatct gcaattcaca ttcttaactc ttgtgatcag 300
gatggaatgt gctgacacgt gcagtgattc atgagtcaaa ctgttacgga ggctgtgaca 360
gtgaactggg tagcacagtc gaacatgatc atcctaaca 399

<210> 12404

<211> 303

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140a08d1

<400> 12404

agtcattgca tgtataccgc gggcataaag ggctccgagc ggacattatt gggagcatca 60
tttcccatgt tctgatttaa tcaactgcaa tatgatgatc cacataactg ggcaaaaacc 120
aaagaatgcc actctgacag acacctcgta cctcaacaca tgcaatccag gggaggacat 180

tacaactgac aagtgcatac agcctacccg agatgaattt caaatctttg tgactatagc 240
 tctgccgtct gcaattcaga tttttaactc ttcggatcag ggtggactgg gcatataagt 300
 gca 303

<210> 12405
 <211> 187
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140a09d1

<400> 12405

cttgattgta tgaattatgc tggcatcaag ggcaattttt gtacatgatc aggactatga 60
 attatcatat ccactattaa acaataccag ttccataact cacaatatgc tgagatatac 120
 ttaagactac tttctaaaag atcttagatt atctccacat tcaatacctt ccaactaatt 180
 acactcc 187

<210> 12406
 <211> 540
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140a10a1

<400> 12406

cccgaatttt ttagttctgc tgaaactttt gatgaatggt ctcaaactctc tggtgaaaat 60
 gaccatcagg aggttgctca acaattacac aaggctctcc gcccatctct ccttcgaagg 120
 ttgaagtcag atgttgagaa agggttgccca ccgaaaaagg aaactattct taaggtaggc 180
 atgtcccaaa tgcataaaca gtattataga gcactacttc agaaggatct tgaggttgta 240
 aatgctgggtg gtgaacggaa ggcctctctg aacatagcta tgcaactact catatgttgt 300
 aatcatccat atcttttcca aggtgctgaa cctggctctc ccttcactac aggagatcat 360
 ctaattgaaa atgctggtac aatggctctt ttggataagt tacttcctaa attgaaagag 420
 cgcgattcta gggctcttat attttcacag atgactaggc tactagacat actcgaagat 480
 tatttagtgt ttcgtggata tcaactattgt cgcacgatg gaaatactgg ttgcgatgat 540

<210> 12407
 <211> 384
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140a10d1

<400> 12407

gctggccggc ctgattttgc aaacgttcag catatattca tttcacttgc ggaacaaaac 60
 caaggaattt ttagtagact tgcgtactgg catgtccaca tcccatttgt ccaagatatc 120
 ctttaactat ccctacgaca gatttttggg gcctacataa gtcaggtggg actccaggct 180
 tttggaaaac aagcctgacc aaaagtgtgc aagtcccggc cccatgaaaa atcccaaggc 240
 tttgaaaacc caacaaccct tttttgcacc caatatagaa cattgggtca actaatagct 300
 ttttattccc cggggttgca aaatcgcccc tgggtacaca gttgggcttt tttaaaaaaa 360
 agggactctt tgggtgcctt ggcc 384

<210> 12408
 <211> 548
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220140a11a1

<400> 12408

aaaaaccttc tcttttctca attgggtttc catctttgat ttgatttcat tgccatggct 60
 ccaaaggatc ccaagcaagt tgctgatgct gcttcttctg gtgggtggggg tggctttttt 120
 gcttctattg cttccagctt gtccaatttc ggtagtgccca tgtccaaatc cgттаатggt 180
 ttgggtgggct acgaggggct ggaggttggt aatccagatg gaggaactga agatgctgaa 240
 gaggaagcaa gaaagggacg atggaaacaa gaggagcgag atagttactg gaaaatgatg 300
 caaaagtatg ttggctctga tatcacatca atgggtgacac ttccagttat catttttgaa 360
 ccaatgacaa tgcttcagaa aatggctgag cttatggagt actcttacct gttagatatg 420
 gcggacaaga ctgaggatcc atacatgaga ctagtatatg cttcatcatt cnttatatct 480
 gtctactatg cctatcaacg aacgtggaag ccattcaatc caattcttgg tgagtactat 540
 gaaatggt 548

<210> 12409
 <211> 417
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140a11d1

<400> 12409

gaaaggaaga taacttgaat ttccctacta gcatttatcc atgcaaaggg aactgatgaa 60
 ctaacatagc tactattaat taatcaaata ctacagtgat aaaacaaccc aaaaacaaaa 120
 ccaaatttca agcattccaa tcaagattac attacaaaact taataacaaa atgatattta 180
 aaaaaaatag aaagaattcc acaaggatgc tcactattca gcatccaaat tatcatattg 240
 ccaaggggtg aattctgggc tgatgtcagg cacttcaatg cactcagaac tatcaacggc 300
 agcacaatgt tgggtatatt taccgttgta ttggtaaact tccaagtcac cccaaggggt 360
 aggagttact tcatctggta aatcaaacca tctaggagtg aacttatggc ccttggc 417

<210> 12410
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140a12a1

<400> 12410

tttggactga aagaagagca agtacctcta attatcattc aacataatga tgggaaaaag 60
 ttttttaaac ccaatttgga agctgatcac attccaacct ggttgaaggc atacaaggat 120
 ggtcatgttg caccatttgt taagtctgaa ccattcccg agactaacga tgaacctgtt 180
 aaagtggtag ttggggccag tcttgaggac attgttttca aatctgggaa gaatgttctg 240
 ctggagtttt atgctccctg gtgtgggtcat tgcatacagt tggctccaat attggatgaa 300
 gttgctatct aatatcaaaa tgaacctgat tgtgggtattg gcaaaaactgg atggcacttg 360
 caaacatatt ccaaggggaa cctttggtgg tccaaggtat tcctacgtgg tccttaagtc 420
 agccagggga aaggtatcca cattacgacg gcggtaggac catggaagac atcttagaat 480
 tcatcgaaaa gaaccgggat aaacct 506

<210> 12411

002230"CTT550

<211> 303
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140a12d1

<400> 12411

aggatgatcta aaaacatcca ttaatttagc tcggatacca gctacaactt ttccagcact 60
aaactctaata ccgccaataa aaagctcccg tttttattaa ggaaaaccat acataaagaa 120
aaccaaacag atcaaaagat caaaggaaga tagatgcacc tatgggtcac taaattctga 180
taacgagata caaaagggtg tgcaaccac atgtaacttt gtgcctatat atcccatgag 240
acgaaaagct tctttaaaagc tcattttttc cttgggcttg ctcatctttt ccttgttctt 300
gct 303

<210> 12412
<211> 566
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140b01d1

<400> 12412

cgccacacat ttagtattta atttcgtcaa gatttccacg ttctttgcaa tagggaaaga 60
aaaattatct ccatacacat tgaataatcc atcataattc caaatgtcca caaataataa 120
taaataacag accctcgaaa ttagctgaat ttccatgatg tttatgcctt gctgtcgata 180
ttcatcggtt gggcatcctt cgacgtggt ttattactgt caagagaatc tagcttgtgc 240
agtttggtga acatatttcc ataaaatttt gcctcttttt tgttgactc cttcatcttt 300
tccttcaaag tcttgactc aagcttgaca tcctgttgt tagggccaat ctcaagcgct 360
ttcttaatat caaatcggc caagtctaaa tcagccaact ggatatatgc ctgggccctt 420
ctatagagag ccttcacatt agtactctca aggtccagta cctttgtgca caatttctct 480
gcttgtttat aatcttttaa tttcaacttg catgctgcat tgtctagatt acaggcaacc 540
ctcaaggctt tggagctctt cttctc 566

<210> 12413
<211> 466
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220140b02d1

<400> 12413

agaattgcc aatgggctta ttttatcaac atataagctt acaaatttcc acattttcag 60
 gaaacaaatg aaggaaattc atcccagttt tgactttctga ttgagtgaat ccacaagaca 120
 cgtatcgaag ttcccaaatt tacacaaatt gcttgggtcag atgacccaaa accaagctat 180
 aacagaccca gcagctagac caaaaactaa gaataatata ctcacaatcc ctgcagtctc 240
 tgcattgctgc aacattacaa ttttaggaat cagaatcatc aatgcactgg ttaggtagcc 300
 attagtaagc cctaacaggc aagtcagtat tgtcacggga atctcagtcc ggaagaattt 360
 gggaccatgc aagcaacct aagaagagagg gaaaaacaac aatcttgcta tgcaaccacc 420
 tatggcaact tttgcattct gtaggaagta aactgcagtc agacac 466

<210> 12414

<211> 496

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220140b03d1

<400> 12414

gtaaaaagca agtaacatta agttggattg ggatacacia gataattcac attatctgaa 60
 gtacattgca ataacatata cttcaccaaaa cacaatatca aaaactctca aaagtccaca 120
 agtcattcctt ttctttcatg ctcaattgcc ggggacgaag ttggtggcgt agggccaggc 180
 attgttggtg actgggtccg caaggtgatc agcaaggttc tccaatggac cttaccggt 240
 gacaatggcc tgaacaaaga acccaaacat agagaacatg gccaatctcc cgttcttgag 300
 ttcttccacc ttaagctcag caaaagcctc tgggtcatca gcaaggccca atgggtcaaa 360
 gctgccacca gggtagattg ggtcagtgac ctcccgagg ggcccaccag caatacgata 420
 accctcaaca gcaccatta ggataacttg ggtggcccag atggcgagga tgctctgggc 480
 gtggacaaag cttggg 496

<210> 12415

<211> 407

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140b04d1

<400> 12415

aaacgagtga cttcattgca tgtgtcatgc gtgcatcaag tccaacttgt gtccattata 60
 agttctcggt ataaccatat ccaaaatcaa accattacaa taacaaagac caacatcgcc 120
 ggcatatact tcagaacaca gccaaaaaga tcttagttta gcaccaaata caatacctac 180
 cacctatddd cattctacaa ctgaatgcag ctcagctggt atcactcagt cattataggt 240
 ttgttctcgc tggctttggg tttctgctct tttggcttct gttcgtccga tttcctctta 300
 tcagaggagc ctccttcttg gctgaggaag gatcggaata gaggagagtc aacgtcgtaa 360
 atcattgtcg tttactgatg gcaaagatga aaccctagtt ctagttc 407

<210> 12416

<211> 227

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140b05d1

<400> 12416

atcgattgac tttattgcag gggtaatgcg tgcataaagt ccaactagtg tacattatca 60
 ggtctaatta ttaccatata cgctattaat caatgacaat atgatatccc atgatcgacc 120
 agttatcctt atgagcacac tcttaaagac ctttggttac ctccacattc aatatctacc 180
 tcctatatag actctacatc tgaatgcagc tcaactgcta tcactta 227

<210> 12417

<211> 227

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140b06d1

<400> 12417

aaacgcttga cttcatcgca ggaatcatgc gagcataaag tccaacaagt gtacatcatc 60
 aggtctatct attaccatac acgatatcaa tcaatgacaa ttacatagcc caccatcgcc 120
 gacttacact taagaacaca gcctaaaaga tctttgttta gctccacatt caacacctac 180

caactattta cattctacag ctgattgcag ctcaactgct atcactc

227

<210> 12418
<211> 228
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140b07d1

<400> 12418

cttaattgta tgaataatgc gggcatcagg gccaccttgt gtacattata aggtcaaatt 60
ataaccatat acgatattat acaatgacaa ttctataacc catcattcat cggattatcc 120
taaagatcac accctaaagg acctttgggt agcaccactt tcaataccaa ccaactattt 180
acattctact gctgattgea gatcagctgc tctaacttag aaatgtat 228

<210> 12419
<211> 205
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140b08d1

<400> 12419

acttaattga atgaaaaatg cgggcataag ggccaacttg tgtacataat caggacaaat 60
tataaccata tacgatatta acaatgaca atttcaaac cccaatcga tcggttaatc 120
ctaaagaact caccctaaag gatctctgtt taactccact ttcaacacca agcaactatt 180
tacactctac aactgattgc agcac 205

<210> 12420
<211> 194
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140b09d1

<400> 12420

cttaattgca tgaaaaatac gagcataagg gcaacctagt gtacattatc aggactagtt 60
attatcatat acaatattaa tccatgacaa gtagactgcc catcataatc ggtttatata 120
ttagaactct gacaaaaaga tctttgatta gcaccacttt caactcgtac caactattca 180

gattctacac ctga

194

<210> 12421
<211> 195
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140b10a1

<400> 12421

gcacaagatc ttgggtctga tctttgtcat gacttaacga cagcgatctc cgacgtgaac 60
taccaggacc tccgagccct gctgatacac aagggaggct accattatgt caggatcacg 120
gacaagccat atccaatcga gaggacaccc cctgcaaagg agaacacacc cataactacc 180
gagtgataac agctg 195

<210> 12422
<211> 151
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140b10d1

<400> 12422

attgcataaa aaacacgggc attagggcca cattttgtac attatccgga ctatttctta 60
tcatatacga tattaacaa tgacaatttg attgcccata atatctgact tatccataag 120
ccctctcaca aaaagatcta tgaccacctc c 151

<210> 12423
<211> 557
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220140b11a1

<400> 12423

gttgatgagt ctctagccca agtgtgctcc gagagtgggtg caatggatcc tcttatgaat 60
tcttactttg agagaatgca agctacgact aggaaatggt acctgaatat tttggaggct 120
gatagaacac agcccccaaa gaaaactgaa gatgggaagc tatatacccc agctgctgtt 180
gatctcttca ggatacttgg tgagcaagta caaattgttc gggataatag cactgatctc 240

aagtaattag gtataataat agtataacta aagcaaaaaa aaagacagta atatgggaag 180
 gggtaggggtt cagctgaaga ggatagagaa caagatcaat cggcaggtaa ctttctccaa 240
 aaggagagct gggttactca agaaagcaca cgagatctct gtgctctgtg acgctgaggt 300
 cgctttgatt gtcttctccc acaaaggaaa gctctttgaa tatgccaccg attcttgcatt 360
 ggagaagata ctggaacgct atgaaaggta tgcctatgca gagagacaac tt 412

<210> 12426
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140b12d1

<400> 12426

aaattaatta tatattgtat atactgttat tagcaattag caaacaagga caaactcaac 60
 gcttaattag ttcagatacg agacctgtct ttcagcaact taactatata tagcaaagct 120
 ttcacttaag aaagcctagc cttgtgacca aattataaac ttacaacaca caataaacat 180
 taacgtctgc agagtaggga aaaccacaaa acatagaggc atatataagc cctcaaatat 240
 gttgtcaaat gccatacaa agctatataa tatcatccac ctcaaagaaa gtattcaaaa 300
 gcatccaagg tgacaggaat ataatgggtc cagagtcagg tcaagttcat tcctccctac 360
 ttctgatgct tcctcacggt aattgccata taacgaagat gtaacataat tataatatct 420
 tgttattgaa aggtcacccc atgttcaaaa gtggctgcgg tagcaagaaa gatgcattaa 480
 ctccgtgggtt tggatgctcc cattgtgctt gctgcgctgc aaccttttct ttct 534

<210> 12427
 <211> 397
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140c01d1

<400> 12427

aaggagaaac tgacatgata ggatataatt atataaaatt gtacatagga agtggaatg 60
 tgaatgtgtg gcagggtgat aaaaatgaaa agagaagcaa caataataaa gtgaatgaga 120
 aatttaaata tcacggacta aaatatctat tcaactgaaa tttaaatgtc acggtctctt 180

ttgcactcag gaggagagat atgaggatag cgttttagtgt cagtgcagta gttgtagatg 240
 gtgtatttct ggcgcaccca tctgagccta cgcactggg cggcgtcaag gtcacggaac 300
 tcaggctggt cccaccacct cttgccctgc gtgtcgcaga acttggcggt caccgaagcc 360
 tcgcacccgt cgatgtgaaa ccccttgtag gctgcta 397

<210> 12428
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140c02d1

<400> 12428

cattgttaat ttacattgag gatataaaa agctagtttt aatatgcagt agtcacaatt 60
 tccatcttct gttacaacca atcacagcac aaagtctaatt ctcaattaac agaagatctt 120
 tattctgaag taaatgtgac agccatcacc aaatgtttca gtttctcatt ctgagctcat 180
 gagacaggca aaggatgata tggaaaagga accaagaata gattatcttt tcttatagct 240
 gtgactccaa aatcctcact catgtccagt tctccacttc tcattccact tggaagcttc 300
 caatcaaagt gatacaaaa cattgcaagg gctagttccg cagctctcaa agcaaatgtg 360
 cttcctgcgc atatccttct tccagcacca aagggattg 399

<210> 12429
 <211> 555
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140c03d1

<400> 12429

ggtgacttgc gagtgcctacg tgatagatca gatgcgttca tgccctcgtag taagctcaga 60
 atactactcg ggggccgccc tttttttttt ttttttgttt aggattattc acattatgaa 120
 agattatctg gaatcatgtc tatttaatat tacactgggtg actaatatca aataaaaaata 180
 taatcaatct tacattgaac tatggctcgtc ttgggttgat ctaacccac gcttactcag 240
 tagcgttatg acgtatgccca tggcaacttt agcacctagg ctagagtgac cacgtgacag 300
 gcatatagct gtatcacccc ctagaagcaa caaacattg gctatcaact gtattgatgg 360

ccttcttagg atcatactaa tgtgagattc atcagtaact tgatcatgta agacggtcgc 420
 atctgctgga cagatgttac tcgaaataag gtccaaacaa gcgggtacct tctgcattaa 480
 atccaccgaa gtgctaactg aactcaatag atgatcgctt ataacagaat atcttctacg 540
 tgcattatcc atctt 555

<210> 12430
 <211> 237
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140c04d1

<400> 12430

aaacgagtga cttaattgca tgtgtcatgc gtgcatcaag tccaacttgt gcacattata 60
 aggtctctct ataaccatat acaatatcaa acaatgacaa ttacatagac catcatcaac 120
 ggcttatact tcagaacaca gcctaaaaga tctttgggta gcaccacttt caatacctac 180
 cacctattga cattctacag ctgaatgcac ctcaactgct atcactcaat cattata 237

<210> 12431
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220140c05d1

<400> 12431

tgcatatgag ctatgtgtgt catcgtcggc tttcnaggtc atgcagtcag tccggaatac 60
 tctaccaggg tacgatccag tctcatctag tcggcggcct gccctttttt tttttttttt 120
 tcttcttgat cttttcagtc gacagactgt acatcacagg tgtcataggg tgcataaagg 180
 ctaccaatg tgcccaataa ccacggcctc acatacttac catatcacga tactaaggca 240
 attgacaatt ctcatatgcc caccgatcag ctgtcgtaca ctaacagatc ccatgtctaa 300
 aagaatcttt gggttaacacc actttctaca cctacctact atgtacattc tacaactgat 360
 tgcagctcag ctgatctcag tcagtcatta tagcttggca ctctagtacc tttgggactc 420
 agctctctac tcttcggcac ttcccactat ctattatccc tgg 463

<210> 12432
 <211> 247
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140c06d1

<400> 12432

aacgcttgac tttatcgag ggatcatgag agcataaagt ccaccaagtg tacattatca 60
 ggactaacta ttaccataca cgatacctaa caatcacaaac ttcatttccc accatcgagc 120
 atttacacat aagatctcag cctaaaagat cttagtctat caccacattc aacatgaacc 180
 acctattgac actctacatc tgattgcacc tcaactgcta tcaactaaaa attatactcc 240
 ttgcaat 247

<210> 12433
 <211> 208
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140c07d1

<400> 12433

aatcaaacct ttaacaattt agctgattgc atgaaatatg cgggcatcaa gggcaccaat 60
 tgtacatcat aaggcctaag tattaccata cagcatatta tacaatgaca agctgaaacc 120
 ccaccatagc agacataaac aactgaacac agtccaaagg ctcatgggat acctacacat 180
 tcaacctctg cacacaaagg agactcca 208

<210> 12434
 <211> 200
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140c08d1

<400> 12434

cattattgaa tgaatcatgc gggcatcaag gccaccatgt gtacatcata aggtctagct 60
 attaccatac acgctattat acaattacaa tctgacagac caccgtattc gatttaccca 120
 tcagaacaca gtctaaaggc acactgttta cctccacatt caacacctgc caactaaggc 180

cagtccactg ctgattgcag

200

<210> 12435
<211> 229
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140c09d1

<400> 12435

aaacatatat ttaacacttt tcataatcga ataaataata cgggcataag ggccaacttg 60
tgtacattat caggtctatc tattatcata tacaatatta aacaatgaca attacataac 120
ccaccattaa acgacttata cataagaact caccctaaaa gatcattggt tataaccaca 180
ttcaacacct tccaactatt tacactctac acctgattgc agctcaact 229

<210> 12436
<211> 294
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140c10a1

<400> 12436

gtacaagaac tagggcttga tccttttcat cacttaacga caatgaacgc cgacgttaac 60
taccgggacc tccgagcctt gctgagacag aaggagggt accatggcaa caggataaca 120
gacgagcaac aaccaacaga gaagacaccc agtgcaaagg agatcacacc cataacgacc 180
gagtgatagc agctgtgccg aatgaagacg cagaatgaaa ataagtggtc ggtaccgtgt 240
ctggtgctaa agtaaaagct taacgggtgc aagatgaagc atctgcagct gatg 294

<210> 12437
<211> 229
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140c10d1

<400> 12437

acggatccat ttaactatct tccctattgc gagtaagaca cgaggatcag ggcacccatc 60
acaccaactt gagccctaag aactatcata tccgatatta ccacaggaca attagactgc 120

acactataca ccgtactacc cataagaact cacacaaaaa gatcattgtt tatcaccact 180
 ttcaacacca toccaacaatt gacactctac acctgaatgc acctcaact 229

<210> 12438
 <211> 415
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140c11a1

<400> 12438

gcacattaac tatcatggct catctgctac cacttaatct cgtcttggac ttgcggtcca 60
 gtccacaagt ctcgatggta tctcttctgc ttcactacag tagccacca atcgtgtgca 120
 ttcccgtat agtcaacaga cattgctgcc agatgtaggc agttctcaga ctgaagaaca 180
 gcatcagcat cgggtacttcc ctgatgattc aacaatagaa tctattgcta gcaactgggat 240
 tggcaagaat ctcataaatg aagatgattc aaaatcagca tataactgtac attctcctgc 300
 agcagcgtct gcctctcttt cagaatctga tcaaacttac agggatcttg atttgactcc 360
 tgaccaacca ttacaatcta atgaaccaac tggcaacctt ggtgtcatcg gaaga 415

<210> 12439
 <211> 185
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140c11d1

<400> 12439

attgcatgag gattatgggc ataaattcag acatgattac aggatctgaa aaaaataata 60
 ccatataaga tattgatgga cccatttag ataacttg agttacccta ttgtacgcag 120
 atttttagat ttatggatct ctcattaaaa ccactttcct tcttaccxaa ctaattacac 180
 cttaa 185

<210> 12440
 <211> 397
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140c12a1

<400> 12440

agagggacaa gcataat tttt cagaactagg aggcgtggag tgtaattaat ccaaaacctt 60

gtttcagtta ctaagaagca aaaggagcac cgcaccgcac agcggatgca gagaaaaacc 120

taaagtggcg gaagatgacg gaggtggcga gatcagtggg gcacgacgtt ttggggcaaa 180

gggtggtcga cgtggaccag ccaatcgtcg attacatcgt aaacgtcctc gccgacgatg 240

acttcgattt cggcctcgac ggccaaagcg ccttcgaagc cctcggcgag ctccctcgtcg 300

ccgtcggctg cgtcgacgat ttctccact gccgtccgt gtgcagcacg cctgtgcgac 360

aagttcggga agcacggttt ggtgaaggag aagcccg 397

<210> 12441

<211> 229

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140c12d1

<400> 12441

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttggtttttt 60

ttttttttga aaaggaggga aagggttaaata tatccatttt ataattataa ggggttttaca 120

aaatttttta ataggtaatt taaccctggg gtaataaaat cataaaatgg ccttgaaata 180

catagggttg gataaattgc aaaattggtt gacagctgag aggaaccgc 229

<210> 12442

<211> 345

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140d01d1

<400> 12442

caaagttaat tttcattgaa gtaatacaat ggctattcat atcggcataa gtaacaattt 60

acagattaag ttgcaaccga tctgggctca gagtctagat gcatttaaca gagggatctg 120

tatacagaag aaaatgtgac aggcatacacc gatatggaga catggtcatt ctaagcgaac 180

caaacaggca taggggggacc agtccaagga cccgggaagc gaaaggcctg gaagatagtc 240

gtgaccaaag ggccttcact gaggtgcagc actagagttt tcattggagt cggaaactac 300

caatggaggg atacaacaac ctggcaaggg cctaccccggt atttc

345

<210> 12443
<211> 494
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220140d02d1

<400> 12443

aagccaaacc tttcaaaact ttattacaaa cttcttttatt gtacatccat gtccttctct 60
tcacggagga cagaatcata ccataacttt atttcaactt aaactagtat taggaattaa 120
ttgaagtaaa actgtataaa accgcaatat caagggtgta atatcttact tattatgcac 180
cttaatatat cccacatgtg aggaattggc cctctagta agggtttgaa gatcataagc 240
taccacaacac cttgaattct ccttgtggca gaaataaccc acacacttgc aatccttggt 300
gcatttgttt ccacaagtac tctcactcac tctatccct gtagtgtatt tgctcatgta 360
atgctcaact tcttcaattc tgtagaagtg gaaatcacta gcctcgcatg atgtcacagc 420
cttggcagtg caattgggtgc tccaaccatg tagtccattt tccaatggac aagccacaca 480
ttgggttatct tcac 494

<210> 12444
<211> 333
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220140d03d1

<400> 12444

agaaatagtg ttataagccc aggatgacca gcttcatgat gtcctataag ggaacaatac 60
cagtcaccca tgtcaccact gcaagaatta gccaaactgcc aactcattga acccaggcaa 120
tgtgggtatcc aaaagcactc ggggaataga acgataggct accccgactt attgtcctat 180
cctactattg agctctcaat gctgatatga aactggtaa catagcctg gtacaaaagg 240
atcgctatcc ctgccaatg gcctctgcaa tctataaagt gtcttagatc accttgctgg 300
atccaacgac ggtaaccatt gtatgcaaat gac 333

<210> 12445

<211> 223
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220140d04d1
 <400> 12445
 aaacgactga ctgaatcgca ggagtcatgc gtgcacaaag tgcaagctgt gcacattaca 60
 agctgtctgt atgcccacac ggacgggtcat gccacgcat ttgcaaagcc cgaactcatt 120
 ggcgtatcca acggtgcaca tgctaaagga tctttgggta ccaccacttt cagtccttgc 180
 caactattca gattccactg ctgactgcag ctcaactgct atc 223

<210> 12446
 <211> 213
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220140d05d1
 <400> 12446
 agctgaaata gggcatatgg gaacttttag tccaatgggt gtacattata aggcctaatt 60
 attaccatac acgatattaa tcaatgacaa ttacaatgcc catcatcaac gacttacact 120
 taagatccca gcctaaagga tctttgggta tctccacttt caacccttc gcgctattta 180
 gattctacat ctgattgcag ctcatgggct atc 213

<210> 12447
 <211> 327
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220140d06d1
 <400> 12447
 gatccttgaa tcgcttgaca cttattgaag ggatattgtg tgcttgaagg ccaatgtgtg 60
 ctcataaccc ggccgaacaa tcagcaaaca cgatactagg caatgtcatt ctgaatgacc 120
 aatataatcg ttgtacccta aagttccatt tcttaaagat ctgagtgtaa taactccttc 180
 ctcgtagtag ccatctagtt ccttggatta ttgattccac agctgaagat cataggattt 240
 actttagtct tgccactcta tatcattggg accaaactta atagtgatcg gcagtgcag 300

ctatctattc tacctggaaa cttgggt

327

<210> 12448
 <211> 231
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140d07d1

<400> 12448

aaacatatat ttaacgcttt ttttaatcgc atataaaaca cgggcataag gggcaacttg 60
 tgtacataat aaggactatt tattatcata tacaatatta tacaaccaca atttgaaaac 120
 ccataagttc acgtttaatc cattcgaaca ctgactaaaa gatctttggt taacaccact 180
 ttcaacatca acaaactatg tataactcaac tcatgattgc agcacaactg c 231

<210> 12449
 <211> 230
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140d08d1

<400> 12449

aagcatatat ttaacgcttt tcttaatcgt aagaaaaata cgggcataag ggccaacatg 60
 tgtacattat caggtctatt tataaccata tacgatatta aacaatgaca attagataac 120
 ccctgattga cgtcttatac taaagaactc agtctaaagg atcattgttt aacaccacat 180
 tcaataccaa caaactatgt aactctaca tctgattgca gctcaactgc 230

<210> 12450
 <211> 240
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140d09d1

<400> 12450

attcatatat ttaacgattt actatatcga caaagacgat cgtgcgaccg ggaaagaaag 60
 gctctactgt acagggatcc cgaaccata ctgcacctct gtccatgacg ccattgctagc 120
 agatgttgtg tctcctgcac agaattgtctc tgcccgaacg atctatggaa ttgatcactc 180

acaaatactg caggctatct agaaccctaa ggtgctgacc aacaatgagt tctcactgga 240

<210> 12451
<211> 297
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140d10a1

<400> 12451

gtacaagaac tagggtttga tctttgtcat cacttaacga caatgatcga cgacgttaac 60
tattctgacc tccgatcctt gctgagacag acgggaggct actatgatga caggataact 120
gacgtgcaat aaccaaccga gaagacaccc agtgcaaggg agatcacagc cataacgacc 180
gagtgatagc aggtgctctg aatgcagtcg ctgaatgaaa atgggtggtt ggtatcgcat 240
ctgctgctaa agcaaaagct tagcgggtgc gagatgatgc atctgcacgt gatgttc 297

<210> 12452
<211> 233
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140d10d1

<400> 12452

atacatatat ttaacgattt attctattga ataaaaaata cgggcatcag ggacaccttg 60
tgtacattat cagcactaac tcataccata tacaatatga aacaatgaca ataagattgc 120
acacgatcat cgatgtacac atatgattac gctctgaaag atctttggct atcaccactt 180
tcaaccctt ccagctatgt agaacttaca gctgattgca gatcatgcgt tct 233

<210> 12453
<211> 276
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140d11a1

<400> 12453

gaacattaac taggattgga gctatgccat cacttgacga caatggggac ttacgttgac 60
tacgctgact tacgatcctt gctgtgctgg gccgcagcct catataccaa caggatatct 120

ttcgaacaat aatctacatg caatacagacc agttcaaata cgatctcaag cttaactacc 180
 ggggtgagtga aggtcttgcc cacaagatct gcgattgact tatattggta ggtatctcat 240
 tggctgctac aacaaatgct tcgccgttgc accatg 276

<210> 12454
 <211> 171
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140d11d1

<400> 12454

aacgaatgat tttattgaat gagaaatagc ggaaaaaatg ccaccatggg tacatgataa 60
 gaacagaata aaaccatata caatattaat caaggacaat aacatagcac atcgtcaaac 120
 ggtttagtca aaggaactcg gactgaagga tcttagacta taaccacgtt c 171

<210> 12455
 <211> 492
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140d12a1

<400> 12455

ctctgaccct ctcttgtgg attggatcaa ataccctggg aaccccgttt tggtgccacc 60
 accaggcatt ggggccaagg actttcgtga cccaacaaca gcgtgggtca cctcagaagg 120
 gaagtggcga atcaccatag gttccaagct caacaaaacc ggcattgcgt tggtttatga 180
 cactgaggac ttcaagaact atgagctcaa ggaggggctg ctctgtgctg tcgctggcac 240
 cggcatgtgg gagtgtgtgg acttcttccc tgtgtccaag ggaatggaaa tggattggat 300
 acttctatta aatgggccta aggggaagct tgtaatgaag gtaagcctga tgatgataga 360
 catgattact attcaattgg gacttatgat gagaagaatg ttctgttcac accagatgat 420
 gctaagaatg atgttggcgt tggattgaag tatgactatg ggatattcta tgcacccaag 480
 acgttttatg at 492

<210> 12456
 <211> 437
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140d12d1

<400> 12456

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 ctcttgtaag catcatttca catgatatga taaaattaca acaaaaattc tgataaacat 120
 aactgggcaa aacatgaagg aatgcgcttt gagcaagaac cataacctta tgcggctat 180
 tcaggggagg acattacaac tgataagtac aaattgccaa cccaagatgt attccaatcc 240
 tttgtgacta tagctcttct atcttcaatt caaattttta actcttctga tcaggggtga 300
 atgggcgtat aaatgcagaa ttcatttgcc aaacttttag cgaggctgtc acagtggcct 360
 cggtagcatt gttgaacaag aacaacctag cagggtccata gattgccttt gttggataaa 420
 cccgagatgt cacaacc 437

<210> 12457

<211> 395

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140e01d1

<400> 12457

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 aaactccaaa agggctacaa atttaagagc cttccagaaa aaatggcttt caaccttaga 120
 taccaaataa gtaaccttgg attcttccaa ttatgggatg attaataaga aacaaatgct 180
 tcaaaaccaa gcctaaatgg ctaatttctt gacttcttaa tactcgggct cgggagcctg 240
 tttaccaccc tgagaacctc cggtgagga accgccactt gaaccacctg taatgggccc 300
 tccaatcttg gagacaggtt tgtttgccgc attaagcttt gccttaattt cggcagcctt 360
 ggctcccggc attggtgttc tcaaatecca taccg 395

<210> 12458

<211> 480

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140e02d1

<400> 12458
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 aaaacaagaa ccacggtaac acgaaaccat aaagaaactc gaactcaaac cacaacaact 120
 aaaaatacgg ggcataatca taaaccctaa ttgacgacat caagccttag tttctccagc 180
 cttcatcacc accattacca ccacgagagt aaccacggtc tgtgccaccg gcataaccac 240
 caccaccacc agcaccatag ccaccggcat aaccacggtc acggctacgg tatccaccac 300
 cgacaccgtc accgtcacta cgaccaccat attcaccgcc accacgattg gatcctgctg 360
 ctcttcggc gacgtcgacg acgacaccgc gggactgagc ttcattgaca gtgatattac 420
 ggccgtccaa gttctgtcca ttcacgctc cgatcgcatc tttcatggac tgctccgagg 480

<210> 12459
 <211> 300
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220140e03d1

<400> 12459
 gtggctgatt tttatatcac atgtctgcaa tacgtgtaat acgggatcat ctagtgcccc 60
 tagtgaacag gaccaggcca caatacactg aactcgaata tgatgcgaag cccataccat 120
 tgcccatact cgaagaacca cccatcctag ctacatggat atgatgaata catcatacgc 180
 tatatactcc agacctcctg atgagaatct acggacttgt ggactacgaa tgctatcctg 240
 acgtcataac aggtccactc tgattggaca gtggcatctg cagtctgcag gtggcggaga 300

<210> 12460
 <211> 219
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220140e04d1

<400> 12460
 aaacgagtga cttaatcgca tgtataatgc gtgcataaag tccaacaagt gtacatcata 60
 aggactatattt attaccatac acaatattaa tcaatgacaa taacattgcc cctcatcgac 120
 ggcatatgct ttagaacaca gcctgaaaga tctttggcta tctccacttt caataccttc 180

caactattta gattctacaa ctgaatgcag ctcaactgt

219

<210> 12461
<211> 233
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140e05d1

<400> 12461

aaacgcttga cttcatcgca ggtatcatgc gtgcataaag tccaacaagt gtacatcatc 60
cggctctatct attaccatac acgatatcaa acaatgacaa taacaacgcc ccccatcaac 120
gacatatact tcagagctca gcctgaaaga tctttgatta tcaccacttt caacacctac 180
caactatgca gattccactg ctgaatgcag ctcaagtgt atcagtcaaa cat 233

<210> 12462
<211> 237
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140e06d1

<400> 12462

aagcatatat ttaacgcttg actttatcgc atgaaacata cgggcataaa ggccaacatg 60
tgtacattat aaggcctaac tataaccata tacgatatta aacaatgaca atttcatagc 120
cccccatcga cggcttatcc ataagaacac agtctaaaag atctttgggtt aacaccacat 180
tcaacacctt ccaactatgt agattctaca actgaatgca gctcaactgt tatcact 237

<210> 12463
<211> 338
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140e07d1

<400> 12463

tgatcatgtc atgatccctg cgggtgggga cagatcatgt attccaatac cgggtttacg 60
cgctcactcc tcggcggccg cccttttttt tttttttttt taaacatata tttaacgctt 120
ttcataatcg aataaataat acgggcatca agggcaactt gtgtacatta taagggtctaa 180

acttaatcgt atgaataatg cgggcatcag ggcaccatg tgtacatcat caggactatt 60
tattaccata tacgatatta aacaatgaca ataagatagc ccatcatcgc tcggtttacc 120
cttaagaaca cactcttaag gatctttggt taccaccaca ttcaacacca accaactatt 180
tacattctac agctgattgc agctcaactg ctatca 216

<210> 12467
<211> 254
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140e11a1

<400> 12467
gtacaataac taggtttgga gctttgccat cacttggcga caatgggcgc ctacgttgac 60
tatgaggact tacgagcctt gctgagccag tcgggaggct cctatggcga caggatatcg 120
tacgtgcaat aatccagatg ggatacgacc agttcacagg cgatcacaac cttaactacc 180
gagtgattgc aggtgatgcg aactggagtg cagaatgaaa atgggtggta ggcacgcac 240
ttgctgctaa agca 254

<210> 12468
<211> 213
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140e11d1

<400> 12468
accgaatgac tttattgaat gagtaatagc ggcaaaaatt cctccatgtg tacatgatca 60
ggcctaatta taaccaata caatattatt caatgacaat aacacagcac aacagtcacc 120
gatttgcct taggaccacg gactaaagga actctgacta tcaccacgtt cagcaccagc 180
caactatgga cactctacac ctgattgcag ctc 213

<210> 12469
<211> 505
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140e12a1

<400> 12469

ctcaatcttg ctcatgggaa agttctgccc tagcttatat cctgtcgggc cttctctgga 60
 acttgtgcac tccgatcaat gatcttgctt gtccatattg cccttaccct tgtgccaagc 120
 ctccaaaaat agcctccgta gtgaaaccac cggttcacia accaccaaaa ccatgtgcac 180
 cacccaagtc atcttcaaaa cacaccccat gtacaccata cctatgttcc aaaacctcct 240
 cactacccta aaccaccatt tcatacacac acaccccatg tgccaaaacc tgatgcaaag 300
 cctacagtgc attcccatcc acctcatgtc ccaaaaccac caattgagcc agttacacca 360
 ccatatggtc caaaaccacc aattgagaac cctccctatg tcccaaaaca cgctgctgag 420
 ccagttacac caccttatat ccctaaacca ccagtagtga caccaccata tgtgcctaaa 480
 ccaccagtag tgccagttac accac 505

<210> 12470

<211> 357

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140e12d1

<400> 12470

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 cagctgattc catgcatggg ttatattctt cagggagaag agttccgaag tgtgacatat 120
 atcagtattt cccccatgt tctttatgta agtatacttt gaacacggaa ggaaccggaa 180
 catggtgaat gacatgacga aaaaagcaag acatatatgt aaagttgatg tgaaaactga 240
 ttaaagaaga aacgccagac agagagggat gaaaaatatt actttgggcc tgggagcatt 300
 accatcataa ttaatgatat attaactaac tttcagcaca ctgaacca tctggtg 357

<210> 12471

<211> 601

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220140f01d1

<400> 12471

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agtaatttta tccaactaaa ctacatcaaa actaggaaat ggaaagattc cttcatgaat 120
 atagcagacg cgataaaagt tctatagtgc atttaagaga caaaattcaa cggataaaat 180
 ctcaaaagac aaattaaatt acaaaccaaa aacattgaat aaaaactacc aagcactcaa 240
 agtctattca tatcctaaag atttaagcag cagttgcttg ttgggcggca atccttttcc 300
 tagcttcctc aatgattgat agcttaatac ctttaccctt gggaagagat atccacggtt 360
 ttgttccctt gccaatggtg aacacattgc ccattcgagt tgcaaattca tgcccagtag 420
 catcctgaac atggatagtc tcaaagcttc ccttatgctt ctctctgttc ttgatcactc 480
 caacacgacc cctattcctt ccacccgtca ccattgactac attcccaaca tcaaatttga 540
 tgaaatcaac aatcttgctt ttctccaaat ccagcttaat ggtgtcatta gcctgatga 600
 g 601

<210> 12472
 <211> 496
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220140f03d1
 <400> 12472

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 acctgctatt tcaaacaatc aaataatttt gttccaacgg cctcatcact gagaatgttg 120
 agtaccgaag aaaaaaata ttaaaccaga tacactagcg ggagctgccc aattcacaga 180
 acaatgtaca ttgtgctgaa caagagcaaa tgcaattctc ttacaacaga cctaataaac 240
 tcccatccat tgagtacctt aggctctgag aagccaaact tttcgtcaat agccactgca 300
 ttaggattga atagaagcac tttctacttc tgggcattgc tcttctgggc ttcaccatca 360
 aaataatagg catccacaaa ttttctgggc taactaattt gtctgcattg atttcagaca 420
 gatccacag ggatcatctt tagagctgct gcaattggca tgccaaggac tccaagaga 480
 aactaccaa accact 496

<210> 12473
 <211> 228
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140f04d1

<400> 12473

aacgcttgac tttatcgcat gtatcatgcg tgcatacaagt ccaacaagtg tacatcatca 60
 ggccctcacta ttaccatacc cgatattata ccatgacaat tacatagccc cccatagcag 120
 tggttacactt cagttcacag cctaaaggat cactgggttaa ctacacattc atcccccttca 180
 tctatttcac actctacatc tgattgcacc tcaactgcta tcaactcag 228

<210> 12474

<211> 284

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220140f05d1

<400> 12474

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 tcgcatggaa gtcatagcgg tgcatacaag tcaactacaat gtgtacattt atacaggcca 120
 taactatata ccattactac gactatcaaa tcacatgaca atatacaaag caccaccagt 180
 cgcaagactt actacttaag aacacatgcc taaaagatct atgtttatca ccactttcaa 240
 caccaaccaa ctattgagac tctactactg attgcagctc aact 284

<210> 12475

<211> 205

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220140f06d1

<400> 12475

attgtatgaa taatgcgggc atcaaggcca acatgtgtac attataaggc ctaaataataa 60
 ccatatacga tattatacaa tcacaatttc atatcccage atcccacggc ttatacataa 120
 gaacacagac taaaggacct ttgggttaaca ccactttcaa tacctaccta caatgtagat 180
 tctacatctg attgcagctc aactg 205

<210> 12476

<211> 330

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220140f07d1

<400> 12476

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agtctatatc atgagtgcgt cagtatcgac tacgcaagat cattaaagta ataccacggt    60
agatcacgct cactactccc tttttttttt ttttttttaa acatattttt aactattttt   120
tttattatat aaataatacg ggcatacagg gcaacatctg tacattataa ggacaaaata   180
taaccatata cgatattata caatcacaat ttcattattac agaaatccct gtctttataca  240
taagcacaca gactaaaaga tcaaagggtta acaccacctt caatagttac ctacaattta   300
aattctacat ctgaatgcag gtcaaagtct                                     330

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<210> 12477

<211> 329

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220140f08d1

<400> 12477

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gctcaaattgc tgatcgtgcg tacgtctacg atcaggagtc cagtaccggt gtctacgcgc    60
tcacttgctc ggcggccgcc cttttttttt ttttttttta agcatatttt taacgatttt   120
cgttatcgga tgaatgatgc gggcataaag gtcaacaagg gcccatcata aggacaaagt   180
ataacgagat gcggtattgt tcaagcacac taagatgctg cctcagtggc tgacgcatgc   240
atcagaacac aggcttactg atcattagat gtcgccaaat tctatagctg actacgatat   300
agatgcgaca ggtgactgca agttagcgg                                     329

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<210> 12478

<211> 318

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220140f09d1

<400> 12478

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agctcatctg cagcggggtt ggcgatacgc atccatcccg gtctaccgct cactagccgg    60
ggtcgccctt tttttttgct atgcaaagga acatttcaga ctttttgaag ccgtcgagcc   120

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tcgcgtctca ggggaagcaa ccgtccagga aaacgactca taataaccat acacgatatt 180
 aaacaacgac aattacaaat cccatacatc atccaagtat ccatacgaac actgtcaaaa 240
 ggatctcagg ctagctccac tttcaacacc aaccaactat ttacactcca caacggaatg 300
 cagctcaacg gttatcac 318

<210> 12479
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220140f10a1
 <400> 12479

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 tatcctgact tccgagcctt gctgagccag gagggaggct cctatgatga gaggatatcg 120
 gacgagcagt agccaaccga gcagaaaccc agtgcaaggg agaacaaacc cataacgacc 180
 gagtgatagc aggtgagctg aattccagcg ctgaatgaaa atgggtggta ggtatcgtgt 240
 ctgggtgctaa agtaaaagct taacgggtgc gagctgaagc atctgcacgt catgttgggc 300
 ttcgatattg gaatgggtgcg aatttggata tcgatataac gagcactgat aatggagaca 360
 tgatgagact tggtgcacgc attacaca 388

<210> 12480
 <211> 345
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220140f10d1
 <400> 12480

aagcatactt ttaacgcttt tcttaatcgc atgagtaacg cgggcatcag ggccaacttg 60
 tgtacatgat caggcctcac tattaccata tacgatatta aacaatgaca attacaaagc 120
 ccatcatcga cgacgtatac taacgaacac aactacaag acctttgcct agcaccacat 180
 tcaataccaa caaactatctt agactccaca tctgaatgca gctcaactgt tataactcag 240
 tatgtaacgt ctgcaatgag tggctccggg catcagcact ttcggagtgc agtacgtgcg 300
 agctcctctt atcacaggag ccatcactcc cggctcaaga aggat 345

<210> 12481
 <211> 234
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140f11a1

<400> 12481

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 tatgctgact tacgatcctt gctgagccag acgggaggct cctatgacga caggataacg 120
 gacgagcaat aatcgagaga gcagaagccg agagcaagag agatcacagc cataacgacc 180
 gagtgatagc aggtgatccg aacttaagcg ttgaatgaaa atgggtggta ggta 234

<210> 12482
 <211> 272
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140f11d1

<400> 12482

aacgcatgac tttattgaaa gaatgacgcg ggcataaagg ccaacaagtg tacatgatca 60
 ggccaaacta ataccatata cgatattaaa caaagacaat aacaaagccc ctgctcgccg 120
 actcatcctt aggcacacac actaaaggat ctgaggttat caccacgttc aacaccaacc 180
 aactaagtag actctacagc tgaatgcagc tcaactgcta taagtcagta atcaaaggcc 240
 agtactgtgt gccttcgggc actcacgttc tt 272

<210> 12483
 <211> 567
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140f12a1

<400> 12483

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 tgggttttca ctgatcaagc ccttcctgcg gatcttatca agagaggaat ggcagtggag 120
 gatccatcct ctccctatgg ccttcgcctt gtgatagatg actaccctta tgctgttgat 180

ggactagaga tatggagtgc tatccagaca tgggttaagg actacgtctc cttgtactat 240
 gccacggatg atgcagttaa gaaagactca gaactccaag cttggtggaa ggaagctgtt 300
 gagaagggtc acggtgactt gaaagacaag ccatggtggc ctaagttgaa cactcttcaa 360
 gatctgattc acatttgctg cattattata tggactgctt cagcactcca tgcagctgtg 420
 aatttcggac aataccctta tggcgggttc atcctaaatc gtccaactct aaccagaaga 480
 ttgctcccag agccaggaac caaagaatat ggtgaactta ccagtaatca tcaaaaggct 540
 tatttgagaa caattacagg aaagact 567

<210> 12484
 <211> 546
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220140f12d1
 <400> 12484

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 acatgatacg ggtgaacatg ataggagcac aatactatac ataaaaactg acacaacacc 120
 ctattagata tgaaaaacta gatagcatcc aattacaaaa ctttaagcata cataagaaaa 180
 ttatgcacac ataagtttgc acgtttatct gtcaatgaga ggtacgttgg aaggaaagaa 240
 aaccacacac cacacaccac acactctcat tagatagaga tgctgttggg aattcctctg 300
 aaagtaaggc cttccccact ggttaggaaga agcacagtgt agggcatctg cgccggtcca 360
 ttacggttcc taaggcttga attcttgttc ctccctgaga ttttgtctc aatttccttc 420
 agcttgtttc caaacttctt aaaggcttga attgcctttg tgtcatcagt ccaatttgga 480
 ttgtccctct gtccaaggta gacctcatca gaagcatgcc ttgacaatat ctctatcact 540
 gttagg 546

<210> 12485
 <211> 565
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220140g01d1
 <400> 12485

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 agtcattgca tccaactaaa ctacatcaaa actaggaac ggaaagatcc cttcatgaat 120
 atagcagacg cgatataagc tctatagtgc acctaaagaga caaccttcaa cgataaaat 180
 ctgaaaagac aaattaaagt acaaaccata aacactgtac acaaactacc atgcactcaa 240
 agtctatcca tatgctaaag atttaagccg cagttgcttg ttgggaggca atacttttcc 300
 tagcttcttc aatgattgct agcttaatac ctttaccctt gggaagagat atccacggct 360
 gagctccctt gccaatggtg aacacattgc ccattcgagt tgcaaattca tgcccagaag 420
 cattctgaac atggatagac tcaaagcttc ccttatgcat atatatgttc ttgatcactc 480
 caacacgacc gctattcctt gcagccgtca ccattgactac attccaaca tcaaatctgt 540
 tgaaatcaac aatcttggtg ctctc 565

<210> 12486
 <211> 240
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140g02d1

<400> 12486

aaaaacagaa aaaggcaatt aaattacatt aaaaaaggcc cggttttaatt tcccgggtggg 60
 tctaggtttt gcaaccaat caaaggggccc gggacaagtt tccccaggga gaagcggttcg 120
 ttttgtaaaa aaccgcattc ggggggggaag gggctccaaa gggaccggaa aactttgggg 180
 cgggggcctt ccaaatttca tttttggcaa aggggaattt cccaggggccc ggtaaattgt 240

<210> 12487
 <211> 529
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140g03d1

<400> 12487

ggttacatat ttattattat tattgtgaga cattaatatt ttagcattt aacctaaagt 60
 tcctatagct aacaacagct acactaacta gctaactaca gcttcttcag aagacagagg 120
 aaccagacaa gggatcattc accaaattga atatgttatt ccagcaatgc ttattattct 180

<210> 12490
 <211> 227
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140g06d1

<400> 12490

aagcatatat ttaacgattg acttaattgc atgaataaca cgggcatcaa gtccaacatg 60
 tgtacattat aaggcctaata tataaccata tacgatatta aacaatgaca ataacaaagc 120
 ccatcattga aaggcttatc ttaaagaaca cagactaaag gatcactgtt taacaccact 180
 ttcaacacca accaactatt tagattctac tactgattgc agctcaa 227

<210> 12491
 <211> 219
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140g07d1

<400> 12491

acatcattgc atgaatcaca cgggcatcaa ggccaacaag tgtacattat aaggcctata 60
 tataaccata tacgatatca tacaatgaca ataacaaagc ccatcattca tcgggtttacc 120
 cttaagaaca cagcctgaag gatcattgggt tatcaccaaa ttcaacacct accaactatt 180
 tacattctac aactgaatgc agctcaactg atatcactc 219

<210> 12492
 <211> 345
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140g08d1

<400> 12492

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 gccggcgggc gccctttttt tttgtttttt tgataacaat ttttattgat ttttggtata 120
 tgatgtagga tacggaggta aagggtaaat aggaccacgc aataccacaa agcataaaga 180
 gaggctgtta tgttatggca ggcaaagggtg tcgggttcagt ggctaaagct gcagcagaat 240

attagcatcc ttagcgtgag aagttggcaa aatataaaga tgagtagcgt aaagatgcga 300
 cgggatactg cgagccgggg gcatggaagc cgcttaacat ttgtg 345

<210> 12493
 <211> 285
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140g09a1

<400> 12493

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 gacgtgcaaa aaccgactga gcagacaccc agtgccaggg agatcacagc cataacgacc 180
 gagtgataac aggtgatctg aattaagtcg ttgaatgaaa atgggtggta ggtatcgtgt 240
 ctgctgctaa agtaaaagct ctacgggtgc gcactgaagc atctg 285

<210> 12494
 <211> 224
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140g09d1

<400> 12494

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 gatcacacac ttaaagagca ctggtttagca tcacattcaa catcaacgaa ctaattacaa 180
 tcacacatct gatagcagtt cagctgttct aacttgaaat taat 224

<210> 12495
 <211> 396
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220140g10a1

<400> 12495

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tatcctgact tacgagcctt gctgagccag tcgggaggct cctatgatga caggatatcg 120
gacgagcaat aaccaagaga gcagaagacg agtgcaagag agatcaaagc cataacgacc 180
gagtgatagc aggtgatgcg aatgacgtcg ccgaatgaaa ataggtgggtt ggcaccgtat 240
ttgggtgctaa agtaaaagct tcacggttgc gcgctgaagc atctgcacgt gatgttggac 300
tttgctattg aaatgggtgcg aatatggata tcgctgtagc ggagactgat aacggagaca 360
tgatgagact tgatgcccgc atgacacatg caatga 396

<210> 12496
<211> 215
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140g10d1

<400> 12496

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tacggccact ctctaaagga gctctgggtta tcttcacatt caacaccaac caactattga 180
cactctacag gtgaatgcag ctcaactgat ctcac 215

<210> 12497
<211> 232
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140g11a1

<400> 12497

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tatgctggcc tccgatcctt gctatgccg tcgggaggct actgtgatga caggatgtgg 120
gacgagcaga gaccagagag gtgctaagac gagtgtctaca gagatcaaac ctcttaggac 180
cgagtgatag caggtgatga ggacgacatc gtcgaatgca aattcagtgg tg 232

<210> 12498
<211> 266
<212> DNA
<213> Glycine max

[illegible]

<210>	12499
<211>	573
<212>	DNA
<213>	Glycine max

<210>	12500
<211>	394
<212>	DNA
<213>	Glycine max

<400> 12500

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 aactgacctg agatagacag taaccaatat agaagccgcc aacttcgcac tgacagtaac 180
 taacatagaa gaagcctact ttgcacgtaa aagtgactta atgatagcat cactcatacc 240
 atcagcatga gcaaacatgt gaccagaacc ttggagttca tgatagtga tccatggaag 300
 cttttgcgct atgtatcggt gcaatgtaac tggaaccatg agatcctgat cttcatgcc 360
 aagatggaca gagccttcat tatttggaag tggg 394

<210> 12501
 <211> 555
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220140h03d1
 <400> 12501

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 tcgaccattc atcattctgg ccaacagtga attctccaaa actgagatat taaatgccga 120
 aactgacctg agatagacag taaccaatat agaagccgcc aacttcgcac tgacagtaac 180
 taacatagaa gaagcctact ttgcacgtaa aagtgactta atgatagtat cactcatacc 240
 atcagcatga gcaaacatgt gaccagaacc ttggagttca tgatagtga tccatggaag 300
 cttttgcgct atgtatcggt gcaatgtaac tggaaccatg agatcctgat cttcatgcc 360
 aagatggaca gagccttcat tatttggaag tgggtctcca agatcaaggg gactatattc 420
 ccagttaccg aaaccaatat ttaagtcgcg gtggagggtt tcataatcac cttgctgcct 480
 tacctgtgcc acataactct ttctattaga catcttatgc acaagttctt tgtcttgatg 540
 agaaagggtt tccgg 555

<210> 12502
 <211> 270
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220140h04d1
 <400> 12502

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 aaataaggca gggtttcttaa aaccctgcct aaaaatgcct acttgggcta taagatgcta 120
 aacagacact gacctagact taaagggaca acaaccacag caaaggcctt tacctacaag 180
 gaggagggtta cattgaagac acagcctcaa aaacaactga gactgcccac aagggggaat 240
 ttatgccact atacaagtgg aacctccatg 270

<210> 12503
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220140h05d1
 <400> 12503

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 aatcttttaa agtttttgaa cttcaaagcg gtctaaaggg agccacaaaa gccaaaacag 180
 cactaataca gacactttac acacatccac aattatcaat aaggcagggtt tcatataacc 240
 ctgaattaaa atgcctactt tttcttaaca catgctaaca gcacaagctc atgaactaca 300
 gggccctcga aacacagaca ctgcaaacac caacaataag gaggcaactt tgaagacaca 360
 gctacaaata caactgaaac tgcccaaaca cgggtgaattt ctgcatctac atcagtgtac 420
 cctccatgta tcaaaagatt gcgaccactt acataacttg gactcatcac ctgccaaggg 480
 aag 483

<210> 12504
 <211> 236
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220140h06d1
 <400> 12504

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 ggcctaatta taaccatata cgatattaaa caatcacaat aagatagacc ctcatatcg 120
 gcttatcctt aagaacacag cctgaaggat ctttggttat caccacattc aacacctacc 180

aactattttac attctacaac tgaatgcagc tcaactgtta tcacttaata tgtaaa 236

<210> 12505
 <211> 207
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140h07d1

<400> 12505

aagcatatat ttaacgattg acttaattga aaaaataata cgggcataaa ggccaacaag 60
 tgtacattaa aaggcctaac tattaccata tacaatatta aacaatcaca ataacataga 120
 ccaccatcgt cgacatatcc ttaagaacac aactaaagg atctttgttt atcaccactt 180
 tcaatacctt caaactattc acattct 207

<210> 12506
 <211> 237
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140h08d1

<400> 12506

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 gggctatata ttgccaaaga cgatattaaa caatcacagt tgcacatcac cctgtatacg 120
 acttatacta aagctctcac tctcaacgag gattcactag atgcaatgtc aatacctgcc 180
 gacaaattag actccacatc tgagtgcagc acaactggta catgtcaata ggataat 237

<210> 12507
 <211> 285
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220140h09a1

<400> 12507

gaacaataaa tagggctcga tccttttcat cacttgacga caatgaacga cgacgctgac 60
 tctcctgcct tacgatacct cctgagccag tcgggaggct cctatgacga caggatatct 120
 gacgaacaga aaccgactga gtagatgccg actgctaact cgatcaaagc cataatgacc 180

gagtataac aggtgctctg tactaagtcg ttgaacgaaa atgggtggta ggtaccgtgt 240
acgctgctaa agtacaagct tttcggttga gatctgaagc atctg 285

<210> 12508
<211> 214
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140h09d1

<400> 12508

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ccaaagctca cactctcaac taggatacac aagaagcaat gtcaaaacct gccacaaaat 180
tacacaccac tgctgaggac aatacaaacg atat 214

<210> 12509
<211> 182
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140h10a1

<400> 12509

gtacaatgaa tagggttgga gccttttcag cactagacga caacgaacga caacgctgac 60
tctcctagcc tacgatccat cctgagccag ccggcaggct cctatgacga caggagaaat 120
cacgagcaga aaccactgg gtatgatgac gactgctaca ctagatcaaa ggcataatga 180
cc 182

<210> 12510
<211> 251
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220140h10d1

<400> 12510

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ggcctcggta ttaccaaaca cactatgaaa caatcacaat aagaaagccc cggctcaccg 120

atctacccta aggctcacgc cctgaaggat cactggtgat caccaccttc aataccaacc 180
gactacggag atgccaatgc tgattgcagc tcagccgata tcaactcgaaa tgaaaggccc 240
gcaatgtgtg c 251

<210> 12511
<211> 300
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220140h11a1
<400> 12511

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tctcatacca tacgatccat cctgagccca ccagcaggct cctatgacga caggagaact 120
cacgaactga ggtccactgg atagatgacg actgctacct atatcaaagg cttgatgacc 180
aagagatcaa aggtagtgcg tattaaaccg ttgatgcaaa atgcgaggta ggtatcgtga 240
acgatgtgat tgtacaacca tttaggacga gctctgaaac atctgcagaa catgtcgatc 300

<210> 12512
<211> 282
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220140h12a1
<400> 12512

ggacaatgaa agtgcttggg gccttttttag ctctagacgt cgacgcacga caacgcggtg 60
gctcatacca tgcgcacccat cctgggcaca cctaccggat cctacctcta caagcgaaaa 120
caggcactga ggtccactac attgatgacg actcctgcct atgtcgaagg cttgatgacc 180
aagagatcaa cggcattgac tacaaaaccg ttgctcataa atgcgaggta tatatcgtga 240
actacgtgct tggagaacca tttaggtcga actctgaaac at 282

<210> 12513
<211> 416
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220140h12d1

<400> 12513

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gcctcagtat aaccaaacac acaatgaaac aaacacaata agaaagccca gtctcatcgg 120
actacccata ggctcacacc ctaaactaac aaagcgtata accaacttca aaacccaccg 180
acaattgaga ctccaacgat gatagcagca cagacgatgt aactagaaat gaaacgtccg 240
caatgctggg cttcgggcat cagcagacat cgagtcagaa agtgcaatgc tcgcggtatca 300
gagaagccta gcttcggacc caggacggaa cggggggtca gagctataac gttgtactat 360
catggtggat atctgctctg aacaatgaat ggctagtaac aggtccatga gccgaa 416

<210> 12514

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220141a01a1

<400> 12514

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attcaagagg acccgacaat cccacaaagc agaaagagag gttgttatgt tatggcgggc 120
aaaggtggtg gttcagtggc taaggcagta gcagaatata agtatccttg gcgtgagaag 180
ttggcgaaat ataaggatga gtttgctaag ggtgtgtggg gatactggga gctgggggca 240
tggaagccgc tgagcatcgg tgctcggcat cgcgctagaa ttcgcaagga agtcctcctt 300
gctggggaag attggccgta tgatcctgaa aggaaggaga tgaagaccag gaggaagga 360
cacaaatgtg ataggatata cgctgagaag cgcgcaaaca ctgccaagtt gatggagaag 420
atgccccaga tggttgctgga ttacaagaag agaaggtggc agaagaagat gaaggaagaa 480
gaccagggaa aac 493

<210> 12515

<211> 337

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220141a01d1

<400> 12515

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 tcatgattaa atactacatt tctcaatggc acagcttaat gctaaacctg gccaaaactt 180
 gaggaggagc aaaatcaaag ttttcccttg tctctctact tcatcttctt ctgccacctt 240
 ctgttcttgt aatccagcaa catctggggc atcttctgca tcaacttggc agtgtttgca 300
 cgcttctcag cggatatacct atcacatttg tgtcctt 337

<210> 12516
 <211> 629
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220141a02a1
 <400> 12516

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 ttcgttggtgta acagggatgg ctggtcctag tgggtttgga tcagcttcca ctgcagaaca 120
 gggtactgat ggaattgatg ccagcaacct cactgcaatt atcacaggag gagcaagtgg 180
 tataggcttg gagacagcaa gagtgttggc tcttcgaaag gtccatgtga tcattgcagt 240
 tcggaacatg gtgtctgcaa aggaggctaa acaacaaata ctagaggaga atgagtctgc 300
 acgagtggac gtaatgaagc tcgacctttg ctgagtgaat tctattacat catttgtgga 360
 caacttcata gctcttgatc ttcctctcaa cattttaata aacaatgctg gagtaatgtt 420
 ctgcccattc aagctctcag aggatggcat tgagatgcaa tttgcaacat accatcttgg 480
 tcattttcac ttgacaaacc tgcttcttga caaatggca canactgcat aagccactgg 540
 aatagagggc aggatcatta atctgtcatc aattgcccac aactacactt attgaagggg 600
 attagattta atagatcaat gaacgaaag 629

<210> 12517
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141a02d1
 <400> 12517

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 cagtggggaa taaaatgctg ggaaacatcc tgatacaacg acggattatg actttaacgg 180
 gaacgggctt tttattgcat aacgggctgg ttttcataaa ctggtgacca caacgaaggc 240
 ttttaatttc cctaagggga aaaccacctt tctgcaaggg cactcaagct ttcgaaattg 300
 gttcgaccaa atcgttactg gaatcccaga gtccctttgc aagctgattg cttttggcgt 360
 gtgaacttgg tttgcattgt ttgcaatcca caatggactt cccagttgca cttttcacgc 420
 ttgggaggag agcaacataa catggcgtgg ctgctccctg gggg 464

<210> 12518
 <211> 635
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220141a03a1
 <400> 12518

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 tactgaactc ttccacattc caagagtggg aacagaaaact cgatacgtct catttaccag 180
 aaatggtttt tggggaaaac actttgattc taaaacactt gagcagtgga accaacattc 240
 attttaatgc atttgatgct ctacgtggct ggaaacagga agccttgccg ccagttgaag 300
 ttcttgccgc ggctaaatgg aaatttagaa gcaagccctc tcagcaagta atactagatt 360
 acgactatac atttacaaca ccttattgtg gaagtggcac tattgagatt gataaagatc 420
 tgaatgaggg agagacttct aaggaaacca gtgatatcca ttgggaagac tgcaaggatc 480
 aaattgatgt agttgcactt gcatccaagg agcccatact tttctatgat gaggtggtgt 540
 tatatgagga tgaactcgct gataatggag tatcacttct tactatnaaa gtgagagcta 600
 tgectagctc tcggttcttc tgtgcgtttc tggct 635

<210> 12519
 <211> 392
 <212> DNA

SECRET

[illegible]

SECRET

SECRET

SECRET

[illegible]

SECRET

SECRET

SECRET

SECRET

SECRET

SECRET

SECRET

[illegible]

<213> Glycine max

<223> Clone ID: jC-gmfl02220141a05d1

<400> 12523

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tagacaatca agacatgaat aatgaattat caacatatct cgtttgaagc tcctgaatga 180
actatgctta accaatgaac aaatgcaacc ttgacagtaa cttatctact tttggcatcc 240
ccctttgatt gaggaggagg aaccgttcca aaaactttat cccacagtgg tgatgtgatc 300
ccaaagccat agttctggag ccgataatga tgattcaagt gatatttctt gagacttttg 360
ggcacatcag actttggttg accatggtgt aagtagtaat ggggtgcaatc atacatcaca 420
tagcccaaca aaatacctac aaacaccgca ggagcaactg aaggggtgca tatcagcttg 480
accaagttcc agatcggga 499
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<210> 12524

<211> 570

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220141a06a1

<400> 12524

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gagcttgctc agcagattga gaaggttatg cgagcacttg gagattatct aggtgtgaag 240
gttcatgctt gtgtgggagg taccagtgtg cgtgaagacc aacgcattct atctagcggg 300
gttcatgttg tggttggtac ccctgggtcgt gtgtttgata tgctgcgcag acagtcaact 360
ctgccagatc acatcaagat gtttgtattg gatgaggctg atgaaatgct ttcccagggt 420
tttaaggatc agatctacga tatatttcag ctgctgccat ctaagattca agtgggagtt 480
ttctctgcta caatgcctcc tgaggccctt gagatcacta ggaagtttat gaaccaacct 540
gttaggatcc ttgtgaagcg tgatgagctc 570
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<210> 12525
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141a06d1

<400> 12525

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aaaggggggg gagactgggt agagtgagaa acattacata acagtttcca aacgcatact  120
aatttcacatc actacgacgg aggacaaaat ctgatcaaag gagctcatga tcatttgaag  180
gctgctcctc aacttgcacg ttgtaaaact tctggatgtc aaacagcatt ttctcgtcac  240
cctttgggac aaaattgatc gcaacacctt tccttcgta cctcccacta cgaccaatac  300
ggtagagata gttctcaggc tgtgtaggga gatcaaagct tataactaga gacacttggt  360
gcacatcaat accacgagcc aaaagatcag tggttatcaa gacacgggaa gaccataac  420
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<210> 12526
 <211> 646
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220141a07a1

<400> 12526

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tggtctgtgg cagcagccct gggaacaaga gtagctataa ggacgctgct attgagcttg  180
ggaaagagtt ggtgtcaaga aatattgatc tggtttatgg aggaggaagc attggtttga  240
tggggttggt ttcccaggct gtttatgaag gaggtcgcca tgtaattgga gttattccca  300
agacactgat gccaaagagag attactggag agacagtggg ggaagtgatg gcagtagcag  360
acatgcatca aagaaaagca gagatggcta agcactctga tgcctttatt gccttgcccc  420
gttcgtacaa catgggtcca ccaatattcc ctcttaaaaa gtcacgtatc attagacatc  480
aattcaatat tatgcactat ctaatctaca taaatttggc acattaaata aaaattacat  540

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<210> 12529
 <211> 443
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141a08d1

<400> 12529

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 cactgagccc gcgtaatacc tctttgctgg taccatacct tctccagggg atgaaatcgc 180
 cacacaatgg tgggcccttc gggtgtccga attggggctg ctttcacgga catgatgggtg 240
 cctcctgtaa tgacaattcc acttggccgc aaagggtttc acctgatgcc cattgttgcc 300
 tccctataat gttcctgtca gtgaagggtga cacatggcca ttttctgttc tgtgctcact 360
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 gtactaagct gtgagccatc tga 443

<210> 12530
 <211> 607
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220141a09a1

<400> 12530

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 ctgccaaaacc cccatttccg cagttcttaa atttggagtc tgatgtctcc gccattgctg 180
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 gagacagaac ttttctcggt gagctcaaca taacttgatg agaaaccact gttccctttg 480
 cttcctacaa aggatggaat ctgctcattg tcttcaaaaa ctgtggtctt cggcaacana 540

agagggttttg ctgacacaat ggaccctgag tttcctgggc atgcanggat aaacatgatg 600
ctatcac 607

<210> 12531
<211> 546
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141a09d1

<400> 12531

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agtagaaaca aatgtaacac aaacaaaaga ccaagacact attatgatac ttgtaaccat 180
agacaacatc ttgaatagca gttaaccatc aaaaccggc attcagtcac ttatatcata 240
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tttctc 546

<210> 12532
<211> 383
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141a10a1

<400> 12532

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tcaccttgaa aaaagaactt tctgataaaa tgagatcagg atgtgacca atttgtatct 180
gctttgttta taaaatgcac tccaggttaa ttatgtgaca attatttatg aaaacatttt 240
atatatgcta tttttcagat tcttgcggtc aagcaacatg tgtggcttac ctagaatatg 300

aagtgcacgg atttgtttca atgttttggc ataatttaaa ccaatatgaa ttattgtgag 360
 aaattttaaatt ttgacatggt ttg 383

<210> 12533
 <211> 386
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141a10d1

<400> 12533

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 tgaatctgaa aaatagcata tgtaaaatgc catcataaat aatggtcaca taattaacct 180
 ggagtgcatt ttataaacia agctgataca aattgggtca cattctgatc tcattttatc 240
 agaaaggcct tttttcaagg tgaccctgat cgacgggtgt tgacatcatc ttcacatg 300
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 gggctatcat agttgccctc atcctg 386

<210> 12534
 <211> 589
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220141a11a1

<400> 12534

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 tgcgcctgct acgacatttg cacatttaga tgctactact gtactatcaa gaggattagc 180
 ggccaaaggt atctatccag cagtagatcc tttagattca acctcaacta tgctccaacc 240
 tcgaatcggt ggtgaagaac attatgagac tgcgcaaaga gttaaacaaa ctttacaacg 300
 ttacaaagaa cttcaagaca ttatagctat ccttggttg gacgaattat ccgaagaaga 360
 tcgcttaacc gtagcaagag cacgaaaaat tgagcgtttc ttatcacaac ctttattcgt 420
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gtttaaattg attctttctg gagaattaga tggctcttct gaacaagcct tntatttggt 540
aggtaatatc gatgaagcta ctgcgaaagc taccaactta gaaatggag 589

<210> 12535
<211> 365
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220141a11d1

<400> 12535

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tattcaaatt aggttgtgct atttcaagag tttgctgcgc ttcttgggga tcaatgatac 180
tacccttttg cgtctaattt actaaaccag cgatctcagt agtgagtatc ctagcaaaac 240
cgctcatcaa caagatcggt aaccactggg cgttatgaag acctgtggca aaaatcccta 300
ttgccagcgg tgctgcggca gacgcacat ctgtggttga tgagattact gcgttcgacg 360
tggag 365

<210> 12536
<211> 494
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220141a12a1

<400> 12536

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cctctgctgc accactgcac tcgcggtcac cggcgtcgtc cctcatcggc ggcgccttcc 180
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agacaactct gacggagcgg gttctgtact aactgggtcg gatccacgaa atccacgagg 360
tcaggggcag ggacggcgtc ggcgccaaga tggactccat ggacttgcag agggagaagg 420
gaatcacatc tcagtctgct gccacctact gactcggaa agactatacg attaacatta 480

ttgacacgcc tgggt

494

<210> 12537
<211> 505
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141a12d1

<400> 12537

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gaatgacaga gacaaattag ggcacattgc aataactcct gttgcagagc tcaaacacgt 180
atacattcta ccgacttagc accagcaata aatgatgatc ctaaattgtca gcactccaag 240
caatataccc aatgagaagt tcgcatgagc actcaagagc cgccctcatg acatcatgta 300
catgggcacc ctatggtagt ggaaattaaa ataggatatt gaagctgata ctaaattcagc 360
tgtatgggta ccatacgagt actcatgagc taaggcagtg gacattgggc tccagggata 420
cagtgcagag ccaagttaca tgactcggtc tctggcgcac tctggagaga cttgaggcca 480
gcgaccgcgg tcggagcttt agttg 505

<210> 12538
<211> 590
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141b01a1

<400> 12538

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agatactgat ggaaatgatg ccaacctacc taactgtaat tatcacaaga ggagcaagac 180
agatacgctt ggcgacagca agagtgtagg ctctccgaaa ggcacatgtg atcattgcag 240
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gcacgagtga acgtaatgaa gctcgacctt ggctcactga catctattac agcactatgt 360
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atgacctgcc cattcaagct ctcagaggat agcacagaaa tgcaatttgc aacaaaccat 480
 cttgatcatt aacaagtgc aaacatgcct cctgacaaaa tgcaacaaac tgcaaaagcc 540
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<210> 12539
 <211> 512
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b02a1

<400> 12539

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 attgttgtcg gcagtgggtg ggcgggttctg ttgttttatt tagtgtaggt atacgccatg 180
 gtttaataat taaagtctga gagctgtttg ttgccaaagg gattgaacga tcttaaaacc 240
 aggttttagga tttggcattc cattaataat ggtccctttt aactgtatgg tttcacttaa 300
 tgtaattgca ggggtttgta ccctttattc aaaaaaaaaa aaaaaaaaat aaaaaaaaag 360
 aaaaaaaaaa aaaaaaagat aaaaaaaaaa aaatataaat aaaaaaagat aaaacaatga 420
 ataatcaaaa taaagcaaat aaaaaaaaaa gggggggccc ccctttaggg ggccccatgc 480
 cccggaattt aattcgggcc cgtgtcctgg gg 512

<210> 12540
 <211> 518
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b02d1

<400> 12540

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 gggttatttg tttttttttt tttatctaata ttatattttg tatttttata accattgatg 120
 aaaaaaagg ggcgcccccc cgcggcggtc cgtagggcaa accaccccag gaaaacgccc 180
 ccctttaata gggaggggccc gacagcagcc cggggacaaa agagacgaac cacccttggg 240
 accaaaacca cgataaggct ttacattaaa aacggggcgg gttccccgcc cggaaaaaca 300

caaagaaacc gccccccgct gggcccccca ttcacaaagg ggggccaaaa aaacaaaaat 360
 cgggggggggc ccaaaagggg atcccccgca cccccccaaa caggtgggga cccccggca 420
 aaaaacgggg ggggaaaaat ttaccccccc cggggggggcc ccaatcgggg gtattcaccc 480
 cggggaggga aaaacaagcc tttttcatag ggggcccc 518

<210> 12541
 <211> 607
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220141b03a1

<400> 12541
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 atctcctgtg gaaagaccta agatgtctga ggtggtaaga atgctagaag gtgatggttt 180
 ggctgagaaa tgggagcaat ggcagaaaga cgagacgttc cggcaagact ttaacagcaa 240
 catacatcac cctaattgcaa attggatagt agattcaact tcccatattc aggcagatga 300
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 tctgttgga agagatatat ttctgatttg tgcatatgat tttcgccctc tctacctttt 420
 ctcttgtttt catccttgtg cgcagattcc atgcccattg gtcagttgtg attattaaag 480
 atagataatt gtaatttctt ttgcgttgtc aagttgcagg atcaagtgtg tgttacaact 540
 tactagcaac tnttgtcatt gtaggtatga aaaattagat agagctttat ggaaataaat 600
 acaattc 607

<210> 12542
 <211> 406
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b03d1

<400> 12542
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gacctaagat gtctgaggtg agaagaatgc tacaaggtga tggtttggct gagaaatggg 180
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gatgataaca ttctaaggac aggtgaatac acaatactgc cggctttctg ttggaaagag 360
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<210> 12543
<211> 574
<212> DNA
<213> Glycine max
<223> unsure at all n. locations
<223> Clone ID: jC-gmf102220141b04a1
<400> 12543

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gccatggcga aatcttggtg ctggtttttg ttcttctttt cagtgtcttt cttctggtaa 180
ttgctatggt gatgtacttg aagagaattc ggagtaacct ccaacagaat gaaggggtcca 240
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tagaagttgc aagctattca actctcactg aattgctggg ttggtgctcc aacactcgat 360
tgattttctaa gagaaatgta atttaataca attctattag atattttatt tcattgtgtg 420
attagttttg ttttaaattt aattttgatt tacttttatt taaagcaact ttaatagtaa 480
ctntatctgc ataggggcac tcaagtaatt ntggatattt gccacatatt aatctccaaa 540
gatatcacct tgttcgtcct tctngatgag aatt 574

<210> 12544
<211> 451
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220141b04d1
<400> 12544

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 atggccacta tgtaattgat ctgacgtcta acttaagaac tgctgccttt tgcaactact 240
 tcatcctctg catatcaagg gatccataca cactgaagga cactgtccaa gccgactgcy 300
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 agaaggacta acaaggcgat atctttggag attaatatgt ggcataataa caaattgact 420
 tgagtgtccc tatgcagata aagttactat t 451

<210> 12545
 <211> 603
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141b05a1
 <400> 12545

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 gcacattatg cagatttttag acaaggaggc agtagaggag gtgagagggc aaagagagat 480
 acctgacata aagcccgggt atattgtgca actcacagtg gaagtacctg aaaataaaga 540
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 cat 603

<210> 12546
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141b05d1

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 cgacacacca aaggcaaaca aatacactgt acatactaag cttgacagat catgaatcat 180
 caaaaatgtc cccaagatg atgatcgatg tcaatcttta agtgggtcca ttccctgcct 240
 cagatcagct agttcggccc ttctcactct cgttttgaca agcacctcta tatactttat 300
 gtcaggtgaa tacactggta attgtgattc aatgccaaacc cctgcgattt acctcctaac 360
 tccgaatgtc acattgagtc caacttctcg gc 392

<210> 12547
 <211> 572
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b06a1

<400> 12547
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<210> 12548
 <211> 445
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b06d1

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 ggattcaata ttggtcacgt gcttc 445

<210> 12549
 <211> 603
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b07a1

<400> 12549

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 cagattgacc ctgctaagta caagagcatc tcgtctgggt ttggagtttt gcttaaggag 540
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 tgc 603

<210> 12550
 <211> 491

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b07d1

<400> 12550

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<210> 12551
 <211> 572
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b08a1

<400> 12551

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<210> 12552
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 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b08d1

<400> 12552

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tgctgggccg gcgaatgctc cgggctttat gcccaccca gaaagacaaa agggccccc   180
cagacaaagg gtaccgaaaa accccctaga tccaaaaatt tattaactcc cccccaaaa   240
aatcgacccc tgggcaggac atgctcaaca ccgccccgc aagaagtcaa agacgtccc   300
atcacaaaaa cgggcaaaca ggacccaaga tcgaaaagac tcttgacacc ctctcccagg  360
gagccacgca agatcgagat gaactcccc gccttctacg cggggggcc               408

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<210> 12553
 <211> 593
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b09a1

<400> 12553

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acatgggcgt ggacaataat ttgcttgcca aacctagaag gcgtgctaatt tttcggttat  180
gcaatgtgtc atgttacact tctgaagtat tggagattca atctgatgct cctacactgc  240
atgttctggt tgttctctgga aaccagggtg ttattttatt ctacaaggac tttgcggaat  300
ttctatatga gtcgctggag ggaactgctt ctgtcacagc tattggccat gtctctcact  360
caagaacgaa cttggaacat ggacgcatgt tttctttaca agaacagatc gatcacacag  420
attgacttca tcagagagga attggaaaat gttgagattc ctatattact ggttggaacac  480
tctattgggt catacatatc tattgaaatg ttcaagaagt ctgcagagaa ggcgaaatat  540
tgcattgtac tttatccatt tttgacgtta aaccacact caacaacaca gta           593

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<210> 12554
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b09d1

<400> 12554

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cactagtctg tcggccgccc tttttatttc cttttttgct ttcttatttt ttttgtttta  120
tctgttcggt ccttttttta ctgggggaat gaagccaact aaaacttctg caccatgtta  180
attgtcaaaa tttttaagag gatcaatgcc ttgtgcaatt atcagttagc caaaactatt  240
acggtgagct aagccattga catacgggtg aacctgttag acttgaacaa tccatgtgat  300
tcttgatcaa gcttcccccc tgggtgtccc cccattttgt gccaacccat gtgctacaga  360
aaccgccggg gacgttgtct ctttcctata ttaggggctt tccggaacca ctctggaac  420
accttttgac catgtttatg ggtccccaat gatcgtgaac ccccgactca aagtgcccat  480
tacaccttcc tttct                                         495
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<210> 12555
 <211> 471
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b10a1

<400> 12555

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accgcgattt cgttcatgtt ttgctctctc tccaagggtc cgataaattg tctcactccg  180
acatgattgc tgtcctctgg gaaatgatat ttagggggac cgacacggtg gcggttttga  240
ttgagtggat actggcgagg atgggtgctc atccggaggt gcaaaggaag gtacaagagg  300
agttggacgc ggtgggttagg ggtggcgctt tgacggagga ggtcgtggcg gcgacggcgt  360
atcttgccgc ggtgggtgaaa gaggttctga ggctgcaccc gccggggccc cttctctcgt  420
gggcccgtt ggccatcact gatacgacca ttgatgggta tcacgtgcct g                                         471
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<210> 12556
 <211> 505
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b10d1

<400> 12556

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 taagtatatc atcattaagt gcttaatcca tgcctagggc gaactttaac aatgagtggg 120
 ttagccattt cacacgagag cctgatcacc ttcgatagat caaccttggc ttcacagac 180
 ggtatgccat tcaaactcat gcaaaagcca agccaccag aaggttacgg tgctcaaacc 240
 caaagtcttc ccggtgcatg ttctccgacc cgaaccgaat ggagcgagtc tcagatccga 300
 cccgtaaaca gaaaactcgt tttccagacc catgaacctc tcgggcttga actcaagtgg 360
 gtccagccac acctccgggt cccttgctat ggccacata ttaaccatag cgggtggtccc 420
 tcgaggcacg tgatacccat caatggtcgt atcagtgatg gccaaacggg cccacgagag 480
 acgcggggccc ggcggatgca gcctc 505

<210> 12557
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b11a1

<400> 12557

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 ggcgggtgtg tgagagaggg attacggatt agtgagtttt tgtcactaag ttagagctat 180
 gtcgattcat gattgatggg tggtagcagt ttggtgttgg gattaaaggt ggggctttat 240
 ttggattctg tgtttgttga aggagctggc gtaggtggag cgaatgtgct tgagttattt 300
 ttacaccac aattgaaact tacctttcta tgagtctctt ctgtatcgta ttggcggctt 360
 aatttgaggt agctgttgcc tcagaatgct gcacgatcag agaacaaagg gctcaatgga 420
 gatggaatct ttctccgatt atggcgatgc cagcaggtcc aaaattcacg aggccattgc 480

gaaaggaagc tctg

494

<210> 12558
 <211> 583
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b11d1

<400> 12558

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 agagaaagct ggctctttct ggggaagcac taactcatgt catcatcatc gtcttacaca 120
 aagcaccacc agagactgct acttcttcac tatgaagaac ctttacttat tctccacaag 180
 gattgctcca cctggccaaa ctattcaca gacaacattc ttctagaaca accttgatcat 240
 gccatactga acagggtccaa cctttctatg agcagtggtg ctaatccac catattgatg 300
 agcctttgac tgcagcaact ttgtctcaat ggctattcgg tcactctgct ctatcttggt 360
 cactcctgct cgtgtcatga aaaaaggggt ggtgtcaata ttgatagctg tgtctgggtgc 420
 tattttggca ttcacaccac attgctgagc aagttttgat tgtaaagata cacccttgct 480
 agcttctggt gctgacctta tctgttctcc agaggttgat cgctgatcat gattcgctcg 540
 gaggataggc tgagatggaa gaacagaacc tctcataaat gtc 583

<210> 12559
 <211> 309
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141b12a1

<400> 12559

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 gttagggttt tcgagagggg ttggggcctc gaggccgaga aaggcgtcaa ttctaacaga 120
 gccgttaaca gcgaggtttt ctcgaagttg ctagctcaca cttcgcagat tgggtgctggt 180
 gttggcaaag gaggaagaa cataaccgcc attaggaaca gtacctgtgc caaaattagg 240
 gtttgcctt cctccgcatt gcgcactaat gaccaagagt taagtctaata aactggtgga 300
 attttggt 309

<210> 12560
 <211> 510
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141b12d1

<400> 12560

ctagagcaaa atctgtgtta tagtctatta ggaggcaagc atcatcttta agaaaaaag 60
 agtgaatccg tattcacaag gggaagggtg tcagtgtgac attgacataa ctttatacac 120
 cattcacggc atcaactgat gatgaaatgc atgctgccat catcttactt gtccttttcg 180
 aataaaggct tggcgcaagc tctgctctgc ctaggttcga actgacgctc catatatgac 240
 atctctgctt tcaattgtac caacggatgg atcatatacc gtatcagttg cacctgaaat 300
 ctgtctgatt ccatccacat tgccaccatg ttcaccataa acagaaccaa tgacgtgttc 360
 agcaactatt atctccacag tggatattgt caccggatca gacatgttcc ctgtccgacg 420
 ttgcaaattc tcaattaaat acgtatgcaa ttgtccattt tgcaatactg tttcagcatg 480
 gacccttgca taccgtggca aaaacctcc 510

<210> 12561
 <211> 611
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220141c01a1

<400> 12561

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 catatgcaag gggttgatgt gcatacaccg aatgaagggt gttcacctg atctgaaaag 120
 tgcaaattgt ctagtgaata agcattggac cgtcaaaata tgtgattttg ggctttcaag 180
 aataatgaca gaatctccaa tgagagattc ttctcagct ggaactccag aatggatggc 240
 tcctgagctt attcgaaatg aaccattcac agaaaaatgt gatatcttta gccttggggg 300
 gataatgtgg gaactctgca ccttgaacag accatgggac aggagtacca cctgagaggg 360
 tggtttattc cggtgcgcat gaggggtcca gattggagat accagaaggc cctctaggca 420

ggctgatttc agagtgttgg gcagaatgtc atcaacggcc aagctgtgag gagattcttt 480
 ctcgtttggg ggacatcgag tactccttgt gctgaagcaa tatctnttgt acatagaaaa 540
 ctttgggtag agttgttaca ttgtattatc ggctgatgtt gtgactatct gtgaaatttg 600
 tcttttttcg c 611

<210> 12562
 <211> 479
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141c01d1

<400> 12562
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 tccagcatgg agaactttta agcaagaata gcgatagata tgataaaca agattcttga 120
 gttcaaaaac cccattaaag aagctctaac atcattccac ttcttttagtt tagctcttcc 180
 ttgcctactt tgttatacgt aaaaatgcaa gatttataac caattcggcc aaaacgattc 240
 tacacttgga cactgctctt ctcatcgac agaaaaatat gttgagagac ggattggtct 300
 catgtttctc cttgcccccc gaaagagacg agctgcagca cagggatacg aaattgattc 360
 atatttcgca ttttctgcga aaaaagaaca aaatgcacat atagtccaca acatcagccg 420
 ataatacaat gtagcaactc tacccaaagc tgtctatgta caaaagatat tgcttcagc 479

<210> 12563
 <211> 524
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141c02a1

<400> 12563
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 tggaatggct gctttcctct taagtggcac gttgttaagg atgttcctaa caatttggtg 120
 aggcacatta ccctggataa caatgagaac aaacctgtca ctaacagtag ggatacacia 180
 gaggtaatgt tggagcctgg cctgaaatta atcaaaattt tcaaggaata taccagcaag 240
 acatgcattc tggatgattt tggcttctat gaggcccgct agaagactat tttggagaag 300

aaagcaaagc aacaattccc aaagcaggta tgggaaggga aacctgctga tgagaagatt 360
gagataaatg gggaagtcaa tactcaaaaa tctgaagtta gctcggaagt gctcaaggag 420
tcccttgctg aaaaggatag tgatgaccac aaagttcccg agaatggatg tgctacaaaa 480
actggagatg ccccaaaggg tgctaaacca gttgttcctg agag 524

<210> 12564
<211> 504
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141c02d1

<400> 12564

caaacttaaa atccaactat atttttcagt atttcccacc ttgcttctac ccctgttgaa 60
agtaacaaag taaagctgct ctgcatcaaa gtagatctaa atttacaaga caggaaacga 120
ccaacaaagt aaaataaaaag aaagaaaaaa gaaaaagggc aaagagaagg ataaacccga 180
acaaaaacca aaagatataa gcatcttagg cagaaaccct aaaacccaaa aaaccctagg 240
agtaaagcct gttaggagct aaccactgta aacaaaaccc aatgagaagg gattggtgct 300
agcattctat gaagtaactg cggccagcca atctcaatat acagatcttt atcttcacta 360
ggcaaccaat ctctatcttc agactgcaag agaagaggca agaaagataa aatcaggcgg 420
tccaagttt ctgataaaat acttgtaaga accaatatat gccactgaaa tggattggac 480
cgctccttc aaacacagta gagc 504

<210> 12565
<211> 587
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220141c03a1

<400> 12565

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acacttttgg aagatatatt tcacacttgt caacactcat gtggctccgt atgagaagca 180
atatatgcag gaggttcagc ttagagcggc agcagagcag aatgtagatc ctaaggaaga 240

gcaacctgct gttactggag gaactggaaa ggcagaagca attgggggca atgtgaagag 300
 taggccttct aattcatcct ctactgaaca agacttagat acattttcttc ttggagatct 360
 tgaagacagt gatgaagctc cagatgacgg tgagggcagt tttgatgatg attttgacaa 420
 gattggcaat tcagatgttg aagatgagaa gcatgtgaag aaaactgctg caacagttta 480
 ggattcccc aattactttt ggttgagaga ctgaagtcaa aatgaacttt gctgcttgca 540
 actatccctg agatatcagt gaaaccataa agacaaacgg ntgtagc 587

<210> 12566
 <211> 484
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141c03d1
 <400> 12566

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 aagcgataat acgttcgaag agttctaaaa cagtttacia ttgaaagcaa tatcaaagaa 120
 taaggtcaac tgtacaaggc atcagggtc agaaccacca ttttatccaa aatcaatctg 180
 ccactatata ggggtattaag gtaaacaat aaacaatgac cagttacttc agttttttcc 240
 gaccaattcg ccaaatctac aactgctac agccactttt ctttaattcc aggctgctac 300
 aaccgtttgc ctttatggat tcaactgatat ctgaggata gttgcaagca gcaaagttca 360
 ttttgacttc agtctctcaa ccaaaagtaa ttgggggaat cctaaactgt tgcagcagtt 420
 atcttcacat gcttctcctc ttgaacatct gaattgccac tcttgtcaga atcatcatca 480
 aaac 484

<210> 12567
 <211> 632
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220141c05a1
 <400> 12567

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acacacacac acacaaaaaa aaaaaaacat ggcaaaggat agaacaattg gtgtggctct 120
 ggatttctcc aaaagcagca agaatgctct gaaatgggca cttgagaact tagccgataa 180
 aggtgacacc atttatgtca ttcacattaa ctccaactct ctagacgagt cccgcaacaa 240
 gctatgggca gaatctgggtt ctctctttat tcctttggta gagttcagag agcctgagat 300
 tatgaaaaag tatgatgttc aaattgatat tgaggttctt gatttgcttg acactgcttc 360
 aagacaaaaa gagatccaca ttgttacaaa aatatactgg ggggatgcaa gagagaaaact 420
 tttggatgct attgaagatt tgaagctgga ttcgctgggt atgggaagca ggggcctcag 480
 cacaatccaa aggattatat tgngaagtgc tagcaacttt gtgatgacct atgccttttg 540
 ccctgtgact atcgtcaagg aaactagcaa ggaaactagc agcagcaagt aaagatgatc 600
 aatttgggag agaacattta atttcacata ta 632

<210> 12568
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141c05d1
 <400> 12568

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 ttgcctcaat caaaaggagt gaaaactata tgagacagca aatcataaat ttatcttata 180
 caccaaaatc ctactatagg aaagggaata tggcccaact tgatcacgta caatgcaaga 240
 agctatataa ctatgtgaag agtaaacggt atctcccaa gtgatcatct atacgtgctg 300
 ctgctagaat ccttgctagg ttccttgacc atagtcacag ggcaagatgc atggctcagc 360
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<210> 12569
 <211> 614
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220141c06a1
 <400> 12569

<223> Clone ID: jC-gmf102220141c07a1

<400> 12571

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tctttccaaa atccaatctt ttacccttca caccgcacc cctttgggtt tctctctca 180
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ctggccctac attagaatca aaagagcaac atgctaacca tactagagtt gcgatagcgg 480
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ccgaggacaa tgtagtttca caac 564

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<210> 12572

<211> 503

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220141c07d1

<400> 12572

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tcgattttta gtacatgcta taatcatttg gctgaaattt gggtatgaca aagttacaga 180
tgttacaaag tcttctaaga ttgctataa gtctcctgta aactaacacc taggatgcta 240
ttctgctgg ggattactgg ttgttgatt gattctcttg catgtgaggg caaggtattt 300
ttggttcccc tcttgccat aaaaccttga gttcacctct tttctttccc aatgacaaaa 360
aggttccaag tgtaaattggg actatataaa gcaaagctgg ttgaccatgt ccatccatta 420
agttcaaagc cagctctgtg ataaggagac ctagaccata tgcagtcatt gccacatga 480
tgtaccatc tcgaagggtc ttc 503

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<210> 12573
 <211> 71
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141c08a1

<400> 12573

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 cactcgctcg a 71

<210> 12574
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220141c08d1

<400> 12574

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 gtattccaga aggagagggt tcttttcaac tatcaatcca ggccaattg ccatacaacg 180
 ccataatgca aggggcatcc caactataac gcattgctgc accgtacatg ctagcacctc 240
 ttggcttaaa tctgctcatt acagaatcac acattttacg acgtctcatc tcaatcgctg 300
 gatctctcga aggctctagc acctatgtac tcacctatag cggcagagct cagcactggt 360
 gattcatcag actacaccta accacatggg ataattgggt c 401

<210> 12575
 <211> 606
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141c09a1

<400> 12575

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 gtgaaggaag gaagagagta tcatccatgg cggccaccag agcagtaacc attgccagca 180

actccacatg ctctctgctt gcaaagaaaa cctttgtggg tggcactgct ctttccctca 240
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 acaaactctg caagaagggt tctccctggc atgatattcc cttgcgggta ggtgatgata 420
 tctttaactt cattgtcgag attcctaaag aatccagtgc aaagatggaa gttgccactg 480
 atgagtcttt cactcccata aaacaggata caaaaaaggg gaagctccga tattatccct 540
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 actctg 606

<210> 12576
 <211> 562
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141c09d1
 <400> 12576

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 gcaagctatg gcatgaacaa tagacattcg cacaatacat ctctacacaa gtgacaactt 180
 ttctgcagga attgatctct tgataagttt attccaggac tcattgggtct ctgcgataac 240
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 tccatcaagg atctttagt ctctaaacca gtccctaatt gcaggtagag ttcttgghaa 360
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 ttgcaactat tttccaatca agttctcctt catcaatcat gggtaatgca cccaagggtt 480
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<210> 12577
 <211> 576
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141c10a1

<400> 12577

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tgaccatggc catggccacg atcctgctcc tgttcacggc cttcgcggtt tcatcggtcc 120

tagacatgtc gataatctcg tacgacaacg cccacgccgc cacgtcgcg agcgacgagg 180

agctgatgtc catgtacgag cagtggctag taaagcacgg caaggtgtac aacgcgctcg 240

gagagaagga gaagagggtc cagatcttca aggacaacct gcgattcatc gacgaccaca 300

actcccaaga ggaccgaacc tacaagctcg gactgaaccg gttcgcggtt ctcaccaacg 360

aggagtacag ggccaagtac ttgggaacca agatcgatcc caaccggagg ctgggcaaga 420

ccccgagcaa ccgatacgcg ccacgtgtcg gcgacaaact acctgaatcg gttgattgga 480

ggaaggaagg tgctgttctt ccagtcaaag accaaggagg ctgtggggagc ttgtgggcat 540

tctcagcaat cggtgcaagt gaaggggata aataga 576

<210> 12578

<211> 541

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220141c10d1

<400> 12578

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aatttgatc ataataaaat ggcacagaga aattcatgtg aaggtaacgg ggaagtgtat 180

cagctggtgt tttaattctt cgtctttcat tgacttaatc attggctcct tactgcacgt 240

tcacatttac tttatctgct taagcactgc tgacctgtt cttactccca aaggtccaat 300

ggggtttagc cggagtactc ctcaatgcct tgactccgaa tgggttgatc ttgctcttga 360

gacaagttcc agcataagtg ttgcagatgg gatagtcgtt agggcagcaa ctgtcctggt 420

catcacagca ggtagcacc ttatgaggac atcaaccgca ctcaaagcaa gcattttcga 480

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<210> 12579

<211> 614
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220141c11a1

<400> 12579

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 cccaccatca tcatgagtgc cgtgaatttg aacacatggc cacgccccag cttcattttg 180
 aaccaaaccg ccacaagaag atccagatcc tcccacacct ctcattttctt tcacggcgtc 240
 aataagttac cgtcacccat ttcctgcctc accgttgcca aacgctcatt tacgctctcg 300
 gcggtgctga cgaaagagga caccgtggag acggaagaga agccaccgat tttcgacttc 360
 aagaactaca tggtttccaa agcgagcgcg gtgaacaagg ccctcgacga cgccgtttcg 420
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 cgcgtgaggc cggttttgtg cgtggcggcc tgcgagctcg tcngcggcga ggaggccacg 540
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 ctncctgca tgga 614

<210> 12580
 <211> 524
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141c11d1

<400> 12580

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 acacagatcc taaactcccc acaccatcat cagggagcgc acgtgacatt agaacacagt 180
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 ctgcctaacg cgttgccaaa gcgctccatt tacgcggtc ggcgcgctg acgataagag 360
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cgccctttttt	tttttttttt	cggtaatcat	actttttggt	gctaacacta	acttacgaag	120
tagcagagaa	ggctcgacca	agtaagtatt	cacaccctac	ctacaatata	agtttttttgc	180
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tgctacatgg	ctaggttatc	ttcctaataaa	gcaacatgca	gcaggaagca	agatcctaata	360
gaacaccatg	cacaacatct	gtctgaccac	tttggttgagt	gtcattactc	acatgctgat	420
cattctggcc	agacctaaaga	tcctccttcc	caggggtcgt	gacaccaggt	atcttcccaa	480
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<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220141d02a1

<400>      12585
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$\langle 210 \rangle$	12586
$\langle 211 \rangle$	528

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141d02d1

<400> 12586

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 aggactgagg gatcatatga cataaataga tcctaatact acatatgatc acctttaata 180
 caagtcgaac caaagctatc caaaaactag aacttgctgc tgctacatgg ctaggttattc 240
 ttcttaaaaa gcaacatgca ccaggaagca agatcctaata gaacaccatg cacaacatct 300
 gactgaccac tttgctgagc gtcattactc acatgctgat cattctggcc tgacctaaaga 360
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 ttctcagaac gtagctgctc atactcactc ctgatccggc tcacttatga tcggagactg 480
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<210> 12587
 <211> 561
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141d03a1

<400> 12587

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 agaagctgac ttttttggcg atactgttcc ccccaaattg aaagttcctt tcatacttag 240
 gacgcctgac atgtcagcca tgcaccatga cacaagttct gatctgaaag tggttgga 300
 caagttaaag gatataatag agatctcaaa cacatccctt aaaatgagga agatcgttgt 360
 tgaactgtgt gacattgttg ctactcgcg agctcggctt gctgctgctg gtattttggg 420
 catccttaag aaaataggaa gagacacagt tcaggttgcg gagaagcaaa agtcagtgat 480
 agcgctggat gggggttggt tggacactac accaaattag agaatgcttg agagtgcact 540
 gaaggattgc tggagatgag c 561

gttctttaaag aagacgagtc tccttgcatt tttggttcta ttgaaaaaca gaggtggtct 420
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 ggcattgatg gtccaagtga ggggtgttct cgggttcttg catgctttag caataatctt 600
 ctcagaggag agccctcaa gctgtggacc gtggccagtc ccagagaacc tntgtttaca 660
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<210> 12590
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141d04d1
 <400> 12590

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 cttaaaaaca cagaaaaaag tcttccttag gtaatatata aagtgtctca acatgttttag 180
 cagcgcatgg tctctacatt aaaattacat agagcacaga ttgcccttgt ataaattcct 240
 acttctccat gtgggggcta tattgcctac aggctaacga aaccaatagg agggaaaattt 300
 acgattttat ataaaatcaa ccagtataat atggcagaa acttgggcaa gacaagaaca 360
 cccttctcaa aggtagcaca tcaccatcac tgtaaaaagc ttaacttgca acgggttttg 420
 caatgacttt t 431

<210> 12591
 <211> 616
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141d05a1
 <400> 12591

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ggacatgacc catttggcca ggcgcctcgt ccttcttctc aagatccaca ccatcaaadc 240
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 tgacaaagat caagatacct ttgcgccatta ctttcttgta ttgcctgct tactattggc 480
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<210> 12592
 <211> 479
 <212> DNA
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 <400> 12592

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 gtggcaagaa cgaaciaaata ggcaattgta aatcagaaac cactatgtcc agaciaaattt 180
 gtgaatcctc tctgcttact gttaattgtc cacttagacc cttgttttca agaacagaag 240
 aataaaactca tgctggcaaa tgaagctddd tgttggcctt ccagctttgg aaatagtaat 300
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 caaagtgggg ctcagttaag tagcgataga tccagctgag aatgtatagt cctctgtatg 420
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<210> 12593
 <211> 607
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220141d06a1
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ttcatgggct agatctccag aaaacttact acgtcaggaa acttatttgg ctctggccac 240
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<210> 12594
<211> 334
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220141d06d1
<400> 12594

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cattcccaac aaaaataaat tcaagaactg acgatcaaat gatttgacct tcaagaaaac 180
gtacaagtca aagaattgca gatttcagct cgagtttgct acatttaaac tatacacatt 240
gaagtctcaa tcttctagaa cgctgaatga agtatttctt gatcatatga tcatataagg 300
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<210> 12595
<211> 576
<212> DNA
<213> Glycine max
<223> unsure at all n locations
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<400> 12595

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<210> 12596
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141d07d1

<400> 12596

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 <211> 400
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141d08a1

<400> 12597

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<210> 12599
 <211> 617
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 <213> Glycine max
 <223> unsure at all n locations
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<210> 12600
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 <213> Glycine max
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<210> 12601
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 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141d10a1
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<212> DNA
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<400> 12602

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cagctgatgt tctaattctt catgtttcat tgacttcac 240
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ggggttttagc cggagtactc ctcaacgcct tcaactctgaa cgggatgatc ttgctcttga 360
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<210> 12603
<211> 601
<212> DNA
<213> Glycine max
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<400> 12603

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 aaaagcgctt tgtgtagtag tgtattaagg agtggttaaaa ttgatttctg aaaaatacag 480
 aacaatggat ttagacaaac aaaattgtta gaattgagtg ctctgtgctt tgcatttcta 540
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<210> 12604
 <211> 547
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141d11d1
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<210> 12605
 <211> 576
 <212> DNA
 <213> Glycine max

[illegible]

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aaaagcgctc	tgtgtagtag	tgtattaagg	agtgttaaaa	ttgatttctg	aaaaattaca	480
gaacaatgga	tttagacata	cataattggt	agaattgagt	gctctgagtt	ttgcatttct	540
aaattctatc	agtgatgtgt	gacatttata	tatata			576

<223> Clone ID: jC-gmf102220141d12d1

gtcaaagtca	aagggttgaa	tttgacttag	tcaacacaga	cggattgctg	gggtgcatat	60
atgaaggagg	ggatgtaacc	atcaacattt	attttatttc	aggattcaca	aaatcaatgg	120
gctaggccca	acatgaaaaa	ggcgcattgt	ttaataatgc	gtcaataaat	gttttatttt	180
atttcagact	tcataaaaaa	tgggctataa	ccaaaatatg	aaaagagtgc	ctatttgaaa	240
aatagggcgt	atatagcaat	tttttctggt	taggttgcaa	ccgggtcatg	gtgaccgcgc	300
ttaacccgta	attagacaac	atggttggaa	aatcctacat	gtcctagcct	tgaaacgggtg	360
caacaaaagg	gggaaccacc	acggagggtg	gtgtgcccc	tcagtgggtg	acggcgctac	420
gactcgaggt	cgacacgtgg	gggacagcgg	caacagtggc	atgcgatact	tgacttgaaa	480
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<210> 12607
 <211> 622
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220141e01a1

<400> 12607

 cggtctgagc ggctcgagct tactggttgc cttgttgtga gtaagagaaa aggcttcctg 60
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 ggagactggt cttttcaatc actccccacc tttggaattc aagggtttga gcaaggagga 180
 ggaagactca ttgctagggc aagtggaaat atggaggtac atgacatgct tcacggactc 240
 cgtggccttg aaagctgtca tagagcttcg tatagcggac atactagacc gttatggtaa 300
 accactatcc ttgtcgcaaa ttgtggagaa catagaagac gcaccctccc cagatgcctc 360
 tcttctccag agagtctga gagtgatggt gcgcagaaag atcttcagtg cacaagaatc 420
 agagacagga gaaacctctt tcggcttgac acgagcctcg aagtggatcc ttcgcgacac 480
 gaaaatgacc ctagcaccca tgttgctgct ggagaaccac ccaattcacc tgaacctgac 540
 gcactacatc agtgagatta ttagagaagg cacaaaanat ggcaactgctt ttcttttagtg 600
 ccatggacat gagcaatttg ag 622

<210> 12608
 <211> 383
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220141e01d1

<400> 12608

 cacaccaaag gatctgatcc attaaaagca attaattctt gaaaaccaca caccattcac 60
 tcggcatttt tggaacactt ccctaattca tattgcatta cttagtgggg gggcattgat 120
 tactcatatt taaggcacia acataacaag ggcaggatgg aaaaccccaa aattataaac 180
 gagcatcata tagctgttaa taataacaac aacacatgca acataaaaac cacatgcaac 240
 cgggggtactg gcatcttttt cagatgggaa acgcctaaat gatggaagga aaagccttga 300
 tcttgatgat agtgcaacgc gcgaaaccgg tttccttgaa cagccacttc cagttctctt 360

cggccctttt tttgccaccg ggc

383

<210> 12609
<211> 461
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141e02a1

<400> 12609

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gaagatcctc aaggacctca agaaggagtt ctgctgcaac ggaaccgtgg tgcaggacaa 120
ggagcttggc aagatcatcc aactccaagg cgaccagcgt aagaacgtct cccacttcct 180
cgttcaggct ggccttgtca ggaaggacca gatcaagatt catgggtttt gaccaattgg 240
tcttggtttt gttagtagta atttcaagtt gttcttgagt ttgtgagttt tgaaagtttg 300
gattgttttt ctgtttgatg agtgggtgtg gaataagttt gggttggttt gggttggttt 360
gggttttcca atttttaatg attggatttc atggatgttg ttagtgaact tgaattgttc 420
caaagcaagt tacagttaat aaatgataat tcggttttca g 461

<210> 12610
<211> 460
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141e02d1

<400> 12610

ctgaaatccg aattatcatt tattaactgt aacttgcttt ggaacaattc aagttcacta 60
acaacatcca tgaaatccaa tcattaataa ttggaaaacc aaaccaaacc aaaccatacc 120
aaacttattc caacaccact catcaaacag aaaaacaatc caaactttca aaactcacia 180
actcaagaac aacttgaaat tactactaac aaaaacaaga ccaattgggtc aaaaaccatg 240
aatcttgatc tggtccttcc tgacaaggcc agcctgaacg aggaagtggg agacgttctt 300
acgctggctg ccttgagatt ggatgatctt gccaaagctc ttgtcctgca ccacggttcc 360
gttgacagcag aactccttct tgaggctcctt gaggatcttc tcgtagctga actccttctt 420
cagcccttgc actgtggtca gactcttctt cccattcctc 460

[illegible]

<400> 12611

<210>	12612
<211>	538
<212>	DNA
<213>	Glycine max

<400> 12612

5769

gcttcggtag gtctgcatcc tttttctacc atataagcca gaaaatcaat tgcacgacta 420
 gtctgctgag ccttacaaag tcccaacatg attgcattgc aagtgacaac actgggctta 480
 atacttaatc cttccatgtc atggaaaatt tttatagcct catcaacctt tccttcac 538

<210> 12613
 <211> 637
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141e04a1
 <400> 12613

atttacatac tcaggtgcc a tgtaaattgga aagttttcag agaagtcaga tgttttttagt 60
 tttggcgat tggttcttga ggttataagc ggccagaaaa atagtggcat ttggaacgga 120
 gagaagaagg aggatctact aagtattgca tggcgaaaact ggaggggaagg aacagctgca 180
 aatattgtag atgccacctt gatcaatggt tcacaaaatg aaatagtgag atgcatccac 240
 attgggttac tctgtgttca agaaaatgta gctgccagac ccaccatggc tttcgttgta 300
 accgtgttta atagccattc tcaaactctc ccagtacctt tagaacctgc atattatgat 360
 gatagtgcac aattaccaga gtttaattcc ggggcaacaa tcgagtatac aactagatca 420
 acatcggggg aagaaggcca atgaggctgc tgaaaagtat cacatcactg aattcctcta 480
 atacagctaa tatttatgaa tttcaattaa ttttaagatg gcatatactg agttgtaact 540
 tataaatcta ttcattcgta gtttggtgca aactgtttgt cctttgtggt atgtctacgg 600
 gaggctagt aagtactctt tactatattt caataaa 637

<210> 12614
 <211> 162
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141e04d1
 <400> 12614

aacactcttg atcattgatc gcaagaatag ttagagtgtc tactagcact gccctaaaac 60
 atatcacaag gacaaacagt ttgcacaaa ctaccaatga acagattgat aagctacaac 120
 tcagtatatg ccactctaaa attaattgaa attcataaat at 162

<210> 12615
 <211> 542
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141e05a1

<400> 12615

gtcatagcaa caaacaggca actgagtttg gttcacccta tttacaaact tctgtttact 60
 gactaccgtg acaccatgaa tattaattca cttgcccgga aagccctggg caatgcagat 120
 ggtattatag agaaaacatt ctcgtggggg aggtactcta tggaaatgtc cgctgtcatt 180
 cacaaggact gggttttcac tgatcaagca ttacctaata atcttgtaaa gagaggagtt 240
 gctgcataag gacccatctg ctcccatgg agtacgactt ttgattgagg actatcctta 300
 tgcttctgat gggctagaga tatgggatgc catcaagtcc tgggtgcaag agtatgtctc 360
 actctactac aagtgatata aggaactcca aaaagaccct gaactccatg ctcgggtggaa 420
 agaacttgta caggtgggtc atgggtgattt gacagaaagc catgggtggca tatgatgcaa 480
 actcgtgatg agttgggtga agcttacgct atgctcatat ggattgctac aacccttcat 540
 gc 542

<210> 12616
 <211> 571
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141e06a1

<400> 12616

gcaatttctg cggcacctgt gacagaagcc tgcaagaccc ataccacttc tgctccctct 60
 cttgcaagat caattatctc gaacgagaca gcggtccttc ttctaccgct gagcctcaat 120
 ataaatcatt tgtgctgtga atttgctttt ctctgccata acgagcgaga tctagtccca 180
 aattttggaa ccctaaaatg ggaattgggg atctgcacgc cgagctcgtc ttttgtgtgt 240
 gctgtgtttg gtttgtgagg aaatgtaggg atcgtaatgg cgttcagatc gcgggggttta 300
 cgttttgcgg cgattagatc gagcaagttc cgatcttttt tcaactcggga acggcgaatc 360
 tggacttggt tgagcctgat ttgagaattt ggggtcggga atcttagaca ttttcaattt 420

ttgctgaatt tgtgattttg gtatttttct catttttcaa ttaaattgca tgggtgttttg 480
tctatctgga atttaatttc cccgttgaag tgtttgtgtt ttattagctc atggatatatg 540
ctgctcgtct gtttagatta ttttaatggt g 571

<210> 12617
<211> 531
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141e06d1

<400> 12617

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tatccaaagc tagtctatct agttataact catctacata aatgttgatg ccatacaaca 120
tggttgtccc ttatcacata aaagccgaag agggaaaaag aacaaaagaa ccggaatatc 180
caaatttttag gtagaagtac cacaacagaa aaatcttgga taacaaataa ctcaacatct 240
gtgtgaaaga ccacacaggt gtatatacag gtgaaacaga ccaaagtca tgcgtctcaa 300
cagcacctat ctacctgata gtgacaaact tgttggcgcc gtgtctggcc caatgagtct 360
tcagatcaat agggtttagca aagttataac cttcagcagc aagtttctct aaaaccttgt 420
taaaagcacc ttggctcatt ttccgccag ctatccttgc accacgcctt ttcattgctca 480
ttgggcaagg atatattgac acatttgtgg tgcaacaagc cgattgccaa c 531

<210> 12618
<211> 579
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141e07a1

<400> 12618

gtagaatgca gcaccaatga agtctcttca aaccattatg ggggtcttcc tgctgatagt 60
actctgtagc agcagcacca atgcaggaaa agaaacaagg cagaccatg caaacataaa 120
gacctacata aaccacatgg actagaccac catgccctta accttgagcg accacctcaa 180
ctggctcgac gccttcttca aatcagcgta gcacttcgca gagatgctgt acacttacia 240
acacgtgggc catggcttgt ccgctagact tactcccaag gacgtagaca cacttgcaaa 300

acaacccgga atcctctccg tcatccccga actcaaatac aaactgcaca ccacaagaac 360
 tcccaactta cttggacttg acaaagccac caccttgtag ccgaagctag cctctacggc 420
 ttggcgctcag gtacggcgcg tggaatggcc acacgagcgc gtgtggcgga taacagagtg 480
 tgctggcatc gcggatgctg tactttcgac atagtcgcgg gaatcgacaa ggccataaaa 540
 gacggcgtga atgttctgtc catgtccata aggggaagc 579

<210> 12619
 <211> 366
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141e07d1

<400> 12619
 cggaaggag actcttgcac taataccaac aacaaactac acacctgaaa ttatcatccc 60
 aaaataaaaa ccgccaggag acaaaggaac tacaccagca agccctagac gatacggacc 120
 aggcccaaag gctaaccacg tatatcattc accagttcac ttgcgccttc cttttgggca 180
 cttcctttcg cgcggcccat gattgccagg ggaaccccat tggaatacca agcttctgat 240
 tcgcattggg ccattgaaaa cctgccatga tggcgcctc aaaaagcatt ctacgggtcca 300
 aaagcgatcc catataagcc gctctcgaca ccgtgaccat gaaacacaag gtgtttggat 360
 cttcca 366

<210> 12620
 <211> 487
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141e08a1

<400> 12620
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 aatgttaatt ttgactacta tatcaaacac atttaaagca taacacgttt cacagtttat 120
 catattgcag taaattggtg tgataaaaaa agatcaactt agtttaatag aaacacttta 180
 atagatcaaa gtgatgtttt tcaaacttaa gaaactaaat tggaaaaaaa aaaatcaagc 240
 accaaaaata tatgtatggt aattattcaa atgaaatggg taatttgaac tatagatatg 300

aaactaaaaa gattagtgtt gcaggaactg tgcgccacta gaagtaaagg ggagatttca 360
 agggatacag aattggctag tcagaaagga gcacaggcac agcaacaaaa cgtggcaatg 420
 gagaacacgg cattggagat gagtgtgacg gaccgagcgg gcctactatc agagctatca 480
 gcagtgc 487

<210> 12621
 <211> 325
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141e08d1

<400> 12621

gtgcatgggtt tgttaatttt gactttctata ttatacacat ttaaagcata acacgtatca 60
 cagtttatca tattgcagta aaacggcgcg ataaaaaaag atcaacatag gggaatagac 120
 aacttgaaa aaaacaaagc gaagccccca aacaaaacaa accaaattgg aaacaaacaa 180
 atcaagcccc aaaaatacac gcacgggaat tatccaaagg aaaagggaaa aaagaactat 240
 agatatgaaa caaaaaagat ccgtgccgcc cgaactgtgc gccactacaa gtacagggga 300
 gaaaaaaagg gacccagaag tggct 325

<210> 12622
 <211> 545
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220141e09a1

<400> 12622

attcacaacc gaaacagttt ccattctctt caaaaatga caacaatatc aaattgctcc 60
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 accaacttca tcaagtctc ctgcagcacc acccagtacc cagccctctg catccagtcc 180
 ctctccgtct acgcctccac catccagcaa gacccccacg agctcgtcca gacagccctc 240
 tccctctccc tcaaccacac cgaggccacc aaaaccttcg tcgcaaaatg caacaaattc 300
 agaggcctca aaccgagaga atacgtgcc ttgaaggact gcgctgaaga aatcagtgc 360
 agcgtcgacc ggctcagccg gtcgctgaag gaactcanat tgtgtaaggt gaagggtgag 420

gacttcacgt ggcacatcag caacgttgag acgtgggtga gttcggctat gaccgatgag 480
 agcactngcg gcgatgggtt tcgcggaag gcgctgaatg ggaagactaa ggagggcatt 540
 agggc 545

<210> 12623
 <211> 458
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141e09d1

<400> 12623

cgtccggact aaggaacatt actttactga atcaaaggta gagagaagag caacaaagaa 60
 aatcatacaa aaacagaact catatttcac atttgatcag aagcaacaca agatccatat 120
 ctctataaaa actcacaatt acatacacca cacaaaacac aaaattaacc attaaccaac 180
 cacatagaac tgtttggttct tttttttttt cccctcaaag gaaaaaacga aaacaaaaaa 240
 caaaaacttt cttcccaact ccccctagtgt ttgtgcagca tactgattaa taagcgagag 300
 agcattgcta gtaacctgag caacattgac cattctagcc ctaatcgct ccttaatctt 360
 cccattcagc gccttcccg ggaacccatc gccgcatgtg ctctcatcgg tcaaagccga 420
 actcaccac gtatcaacgg tgctgatgtg ccacgtga 458

<210> 12624
 <211> 585
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220141e10a1

<400> 12624

cgaatacccg ataacatcgg taaccttacc cgattagatg tactcagttt aactggtaac 60
 cggttcatcg gaccggtacc gagttcaata accaagttga ctcagctcac tcagctcaaa 120
 ctcggttaaca attttctcac cggaacagtt cccaaggaa ttgccaagct cgtaattta 180
 acctatttga gtctcgaagg aaaccaactt gaaggtagca taccggattt tttctcttcc 240
 ttcacggatc ttcggattct taatttttct tacaacaaat tttccgggaa tatccccaac 300

tcgatttctt ccttggcgcc gaaactgacg tacttggagc ttgggcacaa ctcaacttcc 360
 gggaaaatcc ctgattttct gggaaaattc aaggcgcttg acacgcttga cctgtcatgg 420
 aacaagtttt ccggaacggt ccttgcgagt ttcaagaacc tgacgaaaat cttcaacctg 480
 aacctctnca acaacctcct ggtggaccgg ttccccgaga tgaacgtgaa agggatagaa 540
 tcgttggact tgtcgaacac agttttacct gggagcattc ccagt 585

<210> 12625
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141e10d1
 <400> 12625

cacaaaaaga gcaaattata ttaattatta tacccattca acttactggt ttaaagtaaa 60
 tatatatagt atatattgaa agttaaaatt acaatttact tattaatta cataattatt 120
 ggaaaactta gcagtaaaag gaaagtaagc acttgaaatc atcaacaact aagcttacta 180
 cacttatgct ttgttgcaag gtggcatagg agaaccacag agacaattat ttgcaacaaa 240
 agcacttgcc ggaaacttat tcttgggaag ctgaccacta agatgggttat agctaacatt 300
 gaactttctca agcccaacaa cactgtttgg aaccttccta aacacccaat tacgagacag 360
 atccaataac ttaatcctct gcgcaaact taacttgccc aaatcaaact caaacttggt 420
 gcccgagcc caaaacctta ccagatactc agtactatct accaaccctaa ttgcactccc 480
 tga 483

<210> 12626
 <211> 573
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220141e11a1
 <400> 12626

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 catcccggtc ctgttccctt tctctctgt ttctccattc ccactcgtgg agttactctc 120
 cttacttttc ttttctctcc cgtcgcttcc acagcaacca cgaccctgaa ttttaggctt 180

tgggattgag attctttctt cttctttttt tgattttttt taacttctgt gagggagaaa 240
 ggggagaatg tcgaagaaga aagttagcgg caacaccatg acgctgaagg acttccatgg 300
 cggttcaatt cctctgatac tccctctacc ttctgctccc ggcgtgactg tgaggacttc 360
 agatcgtgct gggtttgatc ggccgctcggc gtgggggaca ccgatgggcc ggtcggatca 420
 ttggtctcgg ccgcacacgt cgccggcaac taggcattat gatgacaaaa ccccgttttt 480
 gtcacacact gcccgaattg gcaggaattn tgatgaggat ganaggaagc ccctgatgg 540
 tggttcgatg ccacgtagga caatcagtga tga 573

<210> 12627
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141e11d1
 <400> 12627

gatgaaacta atacgaacaa ttttatggcg ttaatcatgc tacaatgttt tcattaggta 60
 acagcctttt cagctccacc acaaagaaag aaaaaaaaaat tagtgttctg gcagcaaattg 120
 atatggggca atcaatgaaa actaaataca gcatggtaat tgtaagaagg tattgtcaca 180
 accaaggcta tgtaacttga gaaatcatta atttctcact caattgttgt gaatgaggag 240
 aaaataacta aaaccacagc cactacatga agtgctctgc aattccacat tgcataaatt 300
 caatgctatc tcatagaaat tgggtcttgag tgagtccaat tatccaccag atattttaat 360
 gaccattgat ctgaggcctt gatgtacgac caacaagccg tgaaaatgga acttgtgtcc 420
 tgctgctgtt gccagtgttc agaccctttt gacctgaaaa cctatgattc actcttgat 480
 ctgatacaga tcttgagaat gcttgtgc 508

<210> 12628
 <211> 509
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141e12a1
 <400> 12628

caaacttgaa gcattgcatt ctgctattta attccactac gtacacgcac attctcctca 60

aagacaacaa tggcaccaac agccaagact ctgacttacc tggcccagga gaaaacccta 120
 gaatcgagct tcgttcggga cgaggaggag cgtcccaagg ttgcctacaa cgaattcagc 180
 gacgagatcc cagtgatttc tcttgccgga atcgacgagg tggatggacg cagaagagag 240
 atttgtgaga agatcgtgga ggcttgcgag aattggggta tattccaggt tgttgatcac 300
 ggtgtggatc aacaactcgt ggccgagatg acccgtctcg ccaaagagtt ctttgctttg 360
 ccaccggacg agaagcttcg ttttgatatg tccggcgcca aaaaggggtg attcattgtc 420
 ttcagccatc tccaagggga atcggtgcaa gactggagag aaatagtgac atacttttcg 480
 tacccaaaaa gagagagga ctattcaag 509

<210> 12629
 <211> 532
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141e12d1
 <400> 12629

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 tgagccagct agctaataag acataggcaa ctgaacacaa cacatgatat cccacaaaag 120
 gataaaccat aagacgtaca aaagcacaaa ggtcaggact attattaatt catggccctt 180
 aaaaaatact aaaaacacca agggggcatg caaatgatac atatgtaatt attattaatt 240
 aagcaagaat ctcttcaaa ggcttggcct caagttttgc ctatcgatca agttcttgca 300
 aatgctttgc attctcaagg tcctgcaa atgctgtcctt agccagctta ttgatccttg 360
 caatctcaat gtccttgctc atcttctctc tgtacatttc agcaaaagtg attggttcct 420
 acatcacagg cttctctgct tgtcttatca tcagagggtg aacagttgca ttaggtgctg 480
 ggttttgcaa agtggctatg gacaaaccgc tatggtttga gttcaccacc gc 532

<210> 12630
 <211> 562
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141f01a1
 <400> 12630

aaagcagaga agtgagatac actaagttat cctcataaat acactctaata taggtggcaa 60
 gataagtgtc taaccttagt aacattgccca catatttgtt tcatttttga attgtgccac 120
 taaaattcta ttcaattcat ctatggctgc ctcttcttat gctatgcaat caatcctggc 180
 aaaccctttg atccgcattt ccagcgggtc taggggtgaac caatttggcg ttcctgcttt 240
 gcacatgaga aggaatgttg gcctgagagt taggtccatg gctaaggaag aacaaccaag 300
 tgagcctgca accccagtta caccgccacc atcagtagaa cccaagccac agccagtctc 360
 tgctccttca ccaaagggtga gcaactaagtt ttctgatgtg ttggcattca gtgggccagc 420
 acctgagagg atcaatggaa gggtggccat gattgggttt gtggctgcaa tggcagtggg 480
 agtagccaaa gggcaagggtg tgctagaaca aatatccaat ggtggcatcc catgtttctt 540
 ggggacaagt gtggtcctta cc 562

<210> 12631
 <211> 569
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141f01d1
 <400> 12631

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 ttggtctctc taatcacaaa ggagattaag tccatttgtg tgtgccttca tgactgaatt 120
 ataccaaagt actaccctta acatactcag taaaagccag agcaatcaaa cccaacatag 180
 caaatctccc attccacagg tctgcatctg aggacatgaa ccctttggac ttagactcca 240
 cgctgacacc ttggaagagt ggaatcaagg aagcaagggt aaggaccaca cttgtcccca 300
 agaaccatgg gatgccacca ttggatattt gctctaacac accttgccct ttggctactt 360
 ccaactgcat tgcagccact aaccaatca tggccaacct tccattgatc ctctcaggtg 420
 ctggcccact gaatgccaac acatcagaaa acttagtgct cacctttggt gaaggagcac 480
 agactggctg tggcttgagt tctactgatg gcggccggtg tactgggggt gcaagctcac 540
 ttggtagctc ttcttagcca tggacctac 569

<210> 12632
 <211> 316

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220141f02a1

<400> 12632

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ctcatttccg angggggccca cctggggcca atcgtagagc ggaaaagtga acgacatgct  120
tcaggcgccg actcctgatt ctcaagatgg tggactaggt cacgctggag accatggaag  180
aaccgaattg atgcatgaat ctcaaatgt gaggcgatgat caacagcgac cagttcaacg  240
gctctgatgc cgttacggcc atcaagagaa agatcaatca catgagccca gatgttcaga  300
ccctcagcct tgacct                                     316

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<210> 12633
<211> 423
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220141f03a1

<400> 12633

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gcatacttac atggggcgcta cgcgcgtagc gtagatcatc acgcacattt accgaagctc   60
gcaattcctc tcgaggcttc tctagagggc ctgcgcctgc ttttatcttc tcttccatct  120
ggcctgttag cactgggggc tcacgcacta cacagcgctt cactgatctc caagcccctc  180
atttcgattc tgcactctgt caccgcgcac caagcccaga gttgcagata catcacatag  240
aaggcatgtc atggcccacg tcaggtgact agcgatccta aaggatcatca ccatgcctcg  300
atgtggccgt ctggaccttc accatccgtg agctgagcct ccctactgga gagcgcatta  360
gtgatatgcc tacacctgag attgccagag tggctctcgg tggacaatac tactgtcccc  420
aat                                             423

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<210> 12634
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220141f04a1

<400> 12634

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 gtcactgcgc atcatgtaca gagttgcagc ttcattcattc agaaggcatc tcaagggccca 180
 tggaggtaac ttgggatcca ttaggttttc aacttcggcc gcggtagctg caaggacttc 240
 atctggtggt ttgttttagct ggcttactgg agagcgttct agtgctcttc ctctcttga 300
 catacccctt ggtggcgttg ctctcccaga ttcacttcca gatttcgtcg aacaaagcaa 360
 gaccaagatc acaacactct ccaatggact cagaattgca tcagagacct cgcctaacct 420
 tgcagcttca attgggttat atcttgactg tggttccatc tatgagacgc cattttcaag 480
 cggecgttca cacttgctag agcgaatggc tttcaaaagc acatcanacc gtagtcactt 540
 tcgc 544

<210> 12635

<211> 188

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220141f05a1

<400> 12635

cccttggtga gaaaggcaac attgttatat ttcgctttcg aatcattttg gttaatcata 60
 agcatgcact atagttatag catatgtagg gagtgatgtt tggcaattgg catatagcga 120
 cctcaagtat agcctgcatg tttccaataa tgtctttgca ttccaatata atcatttttt 180
 tcttctcc 188

<210> 12636

<211> 449

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220141f05d1

<400> 12636

agctagtaaa cacgtacagc atatcatatt aatgccctgc tcgacgccat gcgtctacta 60
 gtcgtcgggc gcccttcgat gggctaataa caacacttat ttttggagac gaaaactgaa 120

actctatggg cacgcaaaca catcatcgaa aacagccaag ctgaacgaga gggccgatta 180
 tgcccattgc caaacgtgac gccctagcta tgccttaaca accgcgccag gctatgaatg 240
 cccacaccga agcgtacacg aaccataaca cgggatgcct ctatcacaaa gactcgaaca 300
 gagggactga cgtacagact cagacttgat actatgtagc aacaaaaatg ggatccctaa 360
 agtcatctca attgccgtgg catcaacaca tggctattgc aaaaaccctg gcatatccca 420
 tggcaatgag cctggatgca caccatact 449

<210> 12637
 <211> 607
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220141f06a1
 <400> 12637

gaccgatacc gtttctttca ccttcaacaa gttcaaccca gtccaaccaa acattatgct 60
 ccaaaaagat gctagtattt catcctctgg ggtgttacia ctcaccaaag ttggcagcaa 120
 cggcgtgccc acctcgggat ctctcggctg tgccttttac gctgccccaa tccagatttg 180
 ggacagcgaa accggcaagg tagccagctg ggctacatcc tttaaattca acattttcgc 240
 acccaacaaa tcaaactcag ctgacgggct tgccttcttc ttggcaccgc tcgggtctca 300
 gcccgaatcc gacgatggat ttcttgggtc tttcaacagt cccttaaagg acaagtctct 360
 ccaaaccgtg gcgattgagt tcgatacttt ctggaacaaa aaatgggacg ctgcaaaccg 420
 acacatcggc attgacgtga actcgatcaa gtccgtcaaa acggcatcng tgggggttgc 480
 caatggacaa gtggcggaga ttctcgttac ctataatgcc gncacgagcc tcttggttgc 540
 ttctctgacg cacccttcaa agaanacaag ttacatcttc tctgacacag tgaacttgaa 600
 gagtaat 607

<210> 12638
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141f06d1

<400> 12638

agacggagta aaacacctat tattatataa tttttgtgac aaacattatt agtagcacca 60
gcctctagca agctagggcg ttattacatt tttcttttgt cacatttaac tacgatgttt 120
gaagctagat ggcctcattg agcacaagc ttggaagatc caaagcatca ttgctgctac 180
catctgacaa cttggaagca aaagaccaag aaatcacatc atgggtttca acggagcctt 240
catgcaaccc ggtggtggca gagaacccaa cgctcaccca ttcgggaaga ttactcttca 300
agttcactgt gtcagagagg atgtaacttg ttttctttga aggggtggatc agagaagcta 360
cctagaggct cgtggcggca ttataggtaa cgagaatcta cgcacttgcc attggacacc 420
cccacgatgc cgtttgacgg actcgatcga gttcacgt 458

<210> 12639

<211> 479

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220141f07a1

<400> 12639

atccaacgag ctcatcttca atcctttcgt tattctctta ttcaccttc tcttctgaat 60
aatccagatc tctttctgcc cttttctccg tcacgctttt cgtgaccgga tctgtatgga 120
tttgatccag atctacacgc cgatgggtggg tttggcccggt gtctttcata gatctgggtc 180
gtagaggctc agatctacgg taccgaggta caacagagaa tcgatgacaa gaacgcagat 240
ccgacggtag atccagccga ttccgctggt tcgatcgcta cagaccctg tatcggtatca 300
ttaagcagcg tgtctcgcgc gttctacacg tgttgccgat ctcggtatgtt gcaaaactag 360
tttatgatgt gaagctatgg actggaaaat ctgtggatgt aggagatttc aggatgaatg 420
ggctcaaaac gcttagtcgt ccgtgggttat tgagtcctga gtgatcttgt catccgacc 479

<210> 12640

<211> 582

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220141f07d1

<400> 12640

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 caagggaatt aaaacaaaca aacatacata ctgaataact tgataccaag aaaaaatattc 120
 attctatgct tgtgtaaaga gccgaagtta tcttcacctt aaagaattgt agaagcctaa 180
 ccagattctt tgtaaattcca caatatttct tcaaaaatac cttgacaacc acaatgatatt 240
 tgtcatagca gaagccatat agcgccttca cattgatatt ccaatcatcg ccagaagatt 300
 tacaatgtta atgacctaat tctgcattac aaatgttgct gcccgaaattc gaacttctta 360
 caagtagata attgtacaat tatacaaagc ccccgcaata caaatggccc atcttatttg 420
 gatacaagta accggagttt accaaatcaa gtaagatgaa caagggaaca atttacctga 480
 catttacaac agtatagctt cacaatntct ataaacagta aaattatgca taagggaagtc 540
 gcagcaggca gctaatatga aatgaagaca attattaata aa 582

<210> 12641
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141f08a1
 <400> 12641

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 agctgcaagc tctttggcct ttcttctctt atcattctct gcaaggaaaa aaaaacttag 120
 atatagacat ttacctatg ttctcctatc aaaatcttag attgattgca ttttaccat 180
 gttattgggt tatagaaacc attattgcat gaatcatcga ggtgggatatt ccaattctga 240
 ttagagaata ataccgaaag tacatacgat attgcatcta agttttgtac tttttgaaaa 300
 ttccaaggac tcacgttaag caaattatga aacatatttc aattctcact ggtacaagat 360
 tgaattgata gatattgtgc ttggtctttc tgggggatga 400

<210> 12642
 <211> 300
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141f08d1
 <400> 12642

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 tttcattaaa cctttaagcc gtgccagggt aaaagtcaac gtaggtgact acagactggg 120
 aaaaattggc ctatctaaat tagtgaaaca tcataaggaa ctttgcaagc ccactaggga 180
 tctaccttca ctctacaaa agcactcaga cccaggggcc ttaaccagat gtaactgact 240
 tccaaagggt gaccactct tccatggctt aagcagactg tgaaagcact ggatcaacct 300

<210> 12643
 <211> 418
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141f09a1

<400> 12643

cgaataccgc ataacatctg tcacctttcc cgcttagagg tactcagttt aactggtaac 60
 cggttcatcg gaccgtacc gagttcaata accaagttga ctcaactcac tcaactcaaa 120
 ctaggtaaca attgtctcac cggaacagtt cccaaggaa ttgccaagct cgccaatcta 180
 acctattgga gtcttgaagg aaaccaactg gaaggtacca taccggactt actgtcttcc 240
 ttcacggatc ttcggattct taattcttct tacaacaaat tgtccgggaa tatgtctaac 300
 tcgatttctt ccctggcgcc gcaactgacg tacttggagc tcgggcacaa ctactatac 360
 gggaaaacgc ctgatcctct gggaaaatgc actgcgcttg acacacttga cctgtcat 418

<210> 12644
 <211> 417
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141f09d1

<400> 12644

cacaaaaaga ccaatttaca ttacttatct taccaatca acttactggg taatagtaaa 60
 cataatccag catatatctg aaagttaaaa ttacaatcta ctaattaaat cacatacttc 120
 ttgaaaacct taacagttac aggtagttaa aacttgaaa ccagtatcat caacgttgac 180
 tacacttata gctctctgaa aggtgccaaa ggataaccac agtgacactc attccaaca 240
 aaagcacttg acggaaacta actctcgaca agctgtccac aaatactgtt ataggtaaca 300

ttgaacttcg taaggccatc aacactgttt ggaacactgc gaaacaccca gttacgagtc 360
tgatacactg actaaaatct ctgcccaaac cttatcttac ccagataaga ctttacc 417

<210> 12645
<211> 554
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220141f10a1

<400> 12645

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aaggaagatg ggtaaggaaa aggttcacat cagtattgtg gtcattggcc atgtcgactc 120
tgggaaatcc actaccactg gtcacctgat ttacaagctt ggaggcattg acaagcgtgt 180
tattgagagg tttgagaagg aagctgctga gatgaacaag aggtctttca agtatgcctg 240
ggcgctggac aaacttaagg ctgagcgtga aagaggaatc accattgata ttgctttgtg 300
gaagtttgaa acaacaaagt attattgcac agttattgat gcgcctggac atagggattt 360
cattaagaat atgattactg ggacatccca agctgactgt gctgttctta tcattgattc 420
gacactgggtg gttttgaagc tgggtatttc aaggatggac agactcgtga acatgctctg 480
ctntcattca cccttgggtg gaaacagatg atttgctgct gtaacaaaat ggatgctact 540
acaccaagt attc 554

<210> 12646
<211> 503
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220141f10d1

<400> 12646

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acacaacgca gcaaagtcct gaaactcgct gcgcttaaca aaaatgtgat caggggttcc 120
gacaaacaca acacattaaa acacagatga ataaaagcaa ttttgccacc gtcgatcaag 180
aaccacgttc tgggaacaac agttgcgaga tgatgggtga gacttcaaac tttgtccgaa 240

aaacaagcta cctagaaaag aggcacacaag agtacagaaa agaaaccaac atttattgta 300
 accaacaatcc cctgatgaac cagcccgcac gattcacttg ttgttctggg cagccttggt 360
 gaccttggct ccggtaggat ccttcttctc aacgttcttg atgactgcca cagcaacagt 420
 ttgacgcatg tccctaacag cagacctacc aagtggagga tactcggaga aagtttcagc 480
 aaccatgggt ttggttgga tca 503

<210> 12647
 <211> 54
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141f11a1

<400> 12647

gtgcttcagc gtggctctta ttgatgctgg ctacgaagac catctatgac gttt 54

<210> 12648
 <211> 464
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141f11d1

<400> 12648

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 gctctaacga gaggcggcgt ggatatcact ggaccttacg cgcatactat taatgattat 120
 gggacaactg acaccctgcc atttgctgca atgggatcag gtttacaggc tggaatgcct 180
 gtgttcgagg ctaagtacag tgaacgccag gagtagcgat gaaggcattg ggctagatga 240
 tgacgcgac tgtgctggtg tatttaatga gctaggacgt gataggcatg ttgatgttgg 300
 cgtgattgcc aaggacata acgaatatca caggaaccac cttctaccag gtccctcgta 360
 ctatgataat ccacacggcg ttagatttcc caagcagaca gctgttctat taacatagat 420
 tacaccgtcg aaggagaagg ttgaagtgat tgaaggatat gcta 464

<210> 12649
 <211> 519
 <212> DNA
 <213> Glycine max

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220141g01a1

<400> 12651

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 tcccgcggcc ccttctggaa cctcctccgc ctcgctcttcg gcggaatcgt gaaacccatc 120
 caaacctctg gtcagtctct cgccccaaa cgccccctct actcctccgt cacgttcctt 180
 tgctccacca cctcctctc caccctcgcc gtcggaaccg acgacgactc cgacgccggc 240
 gtcacccacc actccccgac gcaagtcctc aaaaacttca acgagattcg cctcctccgg 300
 atcgagctcc ccagcggcga gctaggcatc gaagacggcg tgctcctcaa atggcgcgcc 360
 gatttcggat caactctoga caattgcgtc atcctcggcg cctactgcgt cttccacccc 420
 aaagacaacc taaccgaccc catccacacc accaattgca acgcatacga cgacaacgga 480
 agcatccttg attccttcta caccaacggc ggtctcaaac tgcgcgttgc gtggaccatc 540
 agtttctca tcgctgcctg cgccaggcat tacttgctcc aaccattat ctncgagcac 600
 g 601

<210> 12652

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220141g01d1

<400> 12652

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 aagcaaagta cattgctcat ttaacttgag aaaaatatat cataaaggca aaccaaactg 120
 atacctagaa tattcacaga gagatctgat aggacagat gactacaaac ttaaagctct 180
 tacatgatca ttctagttg caggggtgca ctcttacaag cattgcctca aattaaaaaa 240
 accagcagat gcattcagtt ctcaattcaa gcatgattgg tgaatgattt gcagctcctt 300
 tagtaactac tcaaatgtgg gccatagttt cagaagctgg aaagagcaag attccagcga 360
 ccaagctgct tccacttcat gtccgcccaa gaaaatttga gttcagtgat tcccttctat 420
 gaagaactta acattttcta ctttttcaa tgattctgca ttccctcaca tacgcattat 480

aatgagttca tctcatggca at

502

<210> 12653
<211> 522
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141g02a1

<400> 12653

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aaagaaaggc tctgctgttc agcgaccccg aaccgcact ttgaccgctg tccatgatgc 120
catgctggag gatgttgtgt atcctgcaga gattgttggc aaacggggcca gatatagaat 180
tgatggctca aaaataatga aggttttctt ggacccaag gagcgcaaca aactgagta 240
caagctggag accttttctg gagtttacag gaagcttact ggaaaagatg tagtatttga 300
gtatccaatc tcagaagcct gagatgctgc tgcttggtt aatggagtat tgtttttttg 360
gcagattttt ctgttagaat tacatattta tgtaaaca taacaaaaat tttgacttct 420
ggaattttat ttgatgcttc ttcacctga tgacattaaa atcaccaagg gagagtattt 480
tctgtggcta tacttgatt tagattgggt ttcctttagg at 522

<210> 12654
<211> 514
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141g02d1

<400> 12654

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attttaatgt catcaagggt aagaagcatc aaataaaatt ccagaagtca aaattttggt 120
tattgtttta cataaatatg taattctaac agaaaaatct gccaaaaaaa caatactcca 180
ttaaccaag cagcagcatc tcaggcttct gagattggat actcaaatac tacatctttt 240
ccagtaagct tcctgtaaac tccagaaaag gtctccagct tgtactcagt gttgttgctc 300
tccttgggggt ccaagaaaac cttcattatt tttgagccat caattctata tctggcccgt 360
ttgccaacaa tctctgcagg atacacaaca tctccagca tggcatcatg gacagcggtc 420

aaagtgcggg ttcggtgtcg ctgaacagca gagcctttct ttggcggtcg cacgatcctc 480
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<210> 12655
 <211> 535
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220141g03a1
 <400> 12655

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 tcatcagcat taaattctgc gatggattct gctgaaagat tagttgagga ccttgagtca 120
 tatattcata atcacccaac aaatgggtgc aatacaaatt caactcatga tgggaatggt 180
 gctgcaactg attccacacc tgcagcttct acatctcatt ttagtaggaa tgttgacacc 240
 actgctgata ttggcttaga aattcagaca acagatagta acatacagac tgagactagt 300
 ccattggacc cttcttcttc ttcattctcac agaggaagca ctctgttttc aacttcaagg 360
 caagtttcaa atgatcgag aagaaggaga tcaagggtgaa ggtcttttat gtaaggagat 420
 gtaaatcata ttaccagaag gttcccaatt tatagaaagc gacaatttgc tttttataga 480
 aaattntctg tctatttaag caattgggtt gtataaagga atanacaacc attttt 535

<210> 12656
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141g03d1
 <400> 12656

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 aaaaaacata ttgtcgcttt ctataaattg ggaaccttct ggtaatatga tttacatctc 120
 cttacataaa agaccttcac ctgatctac ttcttctgcg atcattcgaa acttgcccttg 180
 aagtcgaaac acgagtgtt cctctgggag atgaacacca cgaagggtcc aatggactag 240
 tctcagtctg catgttacta cctgctgtct gaatctctaa gccaatatca tcagtgggtg 300

caacattcct actgaaacgc gatggagaaa ctgcaggtgc ggaatcagtt gcagcaacat 360
 tcccatcatg agttgaattt gtattgacac cattgggtgg gtgatcatga atctatgact 420
 caaggtcctc aactaatctt tcagcagaat ccatcgcaga atttaatgct gatgaaaggg 480
 atgaaaacg 489

<210> 12657
 <211> 578
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141g04a1

<400> 12657

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 cgcccttcggt cctccgaag atgacgtaat catcaaacac aggcttctca cgcgaccac 120
 caccaccagg ggtgaccctc ccttgaagaa gcttcagaag aagttcacca cgctcgtctc 180
 cgaagtgcac aaagacgaag acatcaacta caacgactgc gagaagctgg ctagagcggt 240
 tctgcaggag ctgacgacat tcgaaattcc gcttctgaag agcaaggcga ttgtggaggc 300
 gaacgttagg gagaaggaga acttcaacga gttgaaggag gaaatgaatc gccagatcct 360
 gctggcgag tccgacattg aggatctcaa gaagcagctt gaggagagca aggttgagag 420
 gaagcacaag gaggagtgcg aggctattag gaagttgatt gccatgcagc ccccgagatc 480
 cgagacaatg aaggttattt cggagttgga gaaggaaatt gccgcgttgg atgccgagaa 540
 cacggctggt tcgaggttgc tggagctcag gaagaagc 578

<210> 12658
 <211> 411
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141g04d1

<400> 12658

aaaatccaat cgaaatgcat ttaggatttc cttttttttt agggaaaatg cattaacttt 60
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 tatcgaaaaa aaaaacatga ctgagatgta tgaaatgttg ccacaggcag actgatattc 180

tacctagata ctgggaaatt gccttttggtt cggccccccc atttgtgtat accatcccat 240
 tcttaagctc ctacgttggc attctcatat gctaaacatg ggtcttttgc tcttcctcta 300
 ttgcgttctg caactcatgc accacatggt acagctgcgc aaattgcttc ttcctgagct 360
 acaacaacct ctaaccatcc gtgttctcgg catccaacgc ggcaatttcc t 411

<210> 12659
 <211> 294
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141g05a1

<400> 12659
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 gtgccatgtg gcgggtttta tgcaactggg tgtgcctcaa gtgcttgga gtttgtttcc 120
 aatgactgtt gaaccacatt gtgagtatca ctactgatac gcaggatgat cgcattctga 180
 aggtatataa tacgcttcag acctggacag agtctgcacc tcggagtctg gcttcactgg 240
 gaccttatcc acttcctctg ctagggctga cgtatcatgt gcatcggcac cgtg 294

<210> 12660
 <211> 475
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220141g05d1

<400> 12660
 aaatatataa gttggaacat caacacaatg gataatcagt tgttcacata gtctcataca 60
 agcatgactg aaccaaagac gcttcttttg aaaacctgac ttagaatcct caatttactg 120
 gaaattcttt taaaacatga atacatgcta agatggctct ctgaaaaatc gtcattggaag 180
 gtctactctt ctaagatgat ctttaactaa aatccatgtt agaaagatat tcctctaaaa 240
 cggttcttag catagaatcg tcgcagaaaa ggaccttttt tctaagacag tcgcttatga 300
 aactatcata taaagtacag actttctacg acgttgcccta cgatgatggc ggttgataac 360
 cggcatcaac tggggctttg taccgacata agcttgcggg tgggtgcatta gtgtcttaag 420
 gagtgtaaac agtgagtcct gaagaatgac cgaacactgg atctagtcct acaga 475

<210> 12661
 <211> 580
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220141g06a1

<400> 12661

attatattaa tcttgcaatt ggctagttct ctgtcttcaa attccaacaa caccaaacac 60
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 cctcgacctc atccaccact tagccctacg aggcctaacc gtcacaatca taatcacacc 180
 aaaaaacggt cctatcttaa accctctctt atcctcgcat ccaaacacgg tccaaacttt 240
 agttctccca ttccctcccc accctaacat ccccgctggc gcagagaacg tccgtgaggt 300
 cggcaacaga ggaaactacc ccttcatcaa cgccctctcc aaactccaac cagaaattat 360
 ccaactggttc gcaaccacac gtaaccctcc tgtagcactc gtctccgatt tcttcctcgg 420
 ttggactcag caactcgctt cccaactcag tattcctagg atcacgttct actgctccgg 480
 cgcgtcctta atcgccatcc tccagcgctg ctgganaaat ctacactttt acaattcaca 540
 gggagataat aatattatta attttcccga aattcccga 580

<210> 12662
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141g06d1

<400> 12662

aatgatgagc gtatattaat aagattttat caacaaaaaa aattacactt ttcattgcat 60
 aatcattaat tgctccgaaa atacaagtca cattcgaagt ttctttccta ataaaatttg 120
 tattctcact taggacttac actctettca tgctcatcca ccaaggctag aacattacga 180
 gctctttcca atcagtgggc tgccatcgtg cagcttcaga tctggaagggt ttgaccacac 240
 tgattacgat aatatattca gaccttcatg tgcttgagca ccagaggctt gacactgatg 300
 catctgttgc atccttactt gctgcatgct aacaccggat gatccaagg gccttcatgg 360
 ccagatacca accgacctat cactcatctt ggatgcatgt ctcagatgga cttt 414

<210> 12663
<211> 340
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220141g07a1

<400> 12663

cttaggcaga aaccctaaga tgcttatatc ttgagggtta tgatcagatt tacccttctc 60
tatgactcat tgcttggttac tatctattat tatactatgt aggtcggtta ctgacttgta 120
aatagagatc tactatgctg catagcagca ttgctaagtt actacaaaca agagtagaag 180
caaggcgagg aatactgata aatatagatg tggatctaag atatgagtat ttgcaactta 240
gttgatcctt gtgcatatat gctatctgtt gattgacttg gacatagtgg caaaagaatt 300
atatgggtgg acatttaatg aataacacat cctctataag 340

<210> 12664
<211> 314
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220141g07d1

<400> 12664

ggtccacgaa gataatTTTT ttgccagtgt gcccaaggca atcaacaggt tgcaaataaa 60
cggaggacta aattaagacc agaatcgga actcaaagtc cactgtagt tcacagggtt 120
gacgaccttg cttctacccc tgccgaaagt gactaagtac agctgcgctg aacaaagtgg 180
atccaaatgt acaggactgg gaacgagccc caaggtaaga caaatgaatg taagaggata 240
gacggctgct atacggacta acccggcctt gtaccagcgt ttctaatacct gtgagggcac 300
ctgcctaaga tgggt 314

<210> 12665
<211> 387
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220141g08a1

<400> 12665

ttttaattatt tggacttttag aaaaagatgg gagtaataaa atgagtttaa tacatgaatt 180
 ttttaattatt tcttatacat ttttagggca ttatgtgggt tgtaatttt tttaaacagt 240
 aaccctcttt ttttcttagt ctaaatgatt ttttaatttt taccaaatta tattattttc 300
 attttgatta tttttttcat atttctgata atttttttgg ttgcatttta gcctttatgt 360
 ttagtgatga cgttattaat aaaaattaaa caaaaaacct aatatttctt aaatagggaa 420
 actaaatgta aaattttcaa aacaagagtt atttttgggc ctattaaatt aatatttttt 480
 catttctgat ctacgtaagt ttgttttttt cttttttgaa atttagtgta tgtcaattgg 540
 tgcttggtta a 551

<210> 12668
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141g09d1
 <400> 12668

ggcttctgt ctatgccgcc tccgatatgt gtctaattca tcaattacgg gtcgacacct 60
 cactcgtcgt cggccgccct tttttgtttt tttttttttt tttgtgtttt tttttttttt 120
 ttattcttat aagggctgga tcagccaaaa aggctattga taaacaatca aatggaatgt 180
 ttaccaaatt gcaattgttc agtatttact atgggtttct caaactcgga tcaaattttt 240
 tgtgagtcta agtattcaaa ccgttaataa gtacataacc cttattacct gataaaactg 300
 tcaactgtac ttaactcaac cttatagtct cttaaagattg tagagggcat gattctttta 360
 taaattccaa atactgttaa tattcattga gattaatagt gccttcaggg gcatgatctt 420
 tttggtgggt tactaaacat ttggcttcta aaggcc 456

<210> 12669
 <211> 497
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141g10a1
 <400> 12669

gagagaggta ggacacatga ggaggtagtg ggtgcaatg aaaaagggaa gggaaggggg 60

gtgggattgg aatgagtata ctatacatgt tgttgtggg tggatgaaga agacacctca 120
 ctgaattaaa ttaaccaggg aaaaccact cttgctcatt tgccttctct ttctctaaaa 180
 caccaaacc ctctatactt ctttctatca aacacagtgc gtgctttttt gttcgtgttc 240
 ttgttctttc gttctoctaa ttgtttcagt ttatgagtga atgaaatggg ggacaagcac 300
 cagcagcacc aggaagactg cagcgatttc accttcgagg acgaatgcac cgaagattac 360
 cggecgctgcg gctaccacgc cgtccgaatc ggcgacacct tcaacgccgg tcgctacgtc 420
 gttcagagta aactcggttg aggccatttc tccactgtct ggctcgcttg ggacaccaga 480
 cattctagat acgtggc 497

<210> 12670
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141g10d1
 <400> 12670

cctcaaaaca tgaagctttg aaaatcggtc caactggcac aatcaaataa gatcaacaaa 60
 atttacttta agaacttcat actcctcatt cctagtttct gtgctccttc attactagac 120
 tctgtgacag accgttacca ttgtccgaga ctaattgacc ctgcatctgc tgaaatatca 180
 aaggacatga ttcgaactac aagaaacata gccaccattg attccaacat tctggttact 240
 ataaactcaa aaatgaattt actaatagat gaaacaggac acatttccca tataaccacta 300
 atcgcagact gactggtaac atgtctatca taatatcatt cagcatcaga gtacatgatt 360
 gtgaacactg ttcacaatca agtcgatggc tccaatagac ctaggcctct ttg 413

<210> 12671
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141g11a1
 <400> 12671

cacctctgct gttcatcatg cagcattctg aggtgatact gctatgtagc agctcaatga 60
 ggtgggtccgc gagaccgggtg ggcctgttaa cggccaacc aacatgcacc gtcccgtcaa 120

tagtgctact catagcactt gacctgctcc tgctcgcacc aagtacctga gtccattctc 180
agagcagatt ccgtcattcg tgaccggaga attcgctggg gactacagat gggacactgc 240
tggactatac agctgacccg gaaaccttag acaggaacca ggcgctggag gtgagccaca 300
gcacattgtc catgctcggg gcacttgggt gtaccttgcc agagatgctt gcgaataatg 360
gcctgaaat 369

<210> 12672
<211> 415
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141g11d1

<400> 12672

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ctgttctgat cagcaaaatg ggctttttac ataatatgag atggagctta caattgcaca 120
tacttgacta cttacactgt gcacacacca acatgtgctc ataagctaaa aggatgttca 180
taatgaggat gctcgatgga agaatacaag ccacagttgg cggatacata ttaaccagag 240
acttgacaat ataatacacac tgagaactgc actggctgcc aatctccaag tatgcttgta 300
catttacctc agtcgcatca atatgttcaa tatgctcgcc cttgtgattg aagtcacaca 360
aaccatttac atgagtctta tcaccataga tgggtgcctt aaatgtgtga tgctt 415

<210> 12673
<211> 559
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141g12a1

<400> 12673

caccggtgac tctcattcac cttcttttct ctgcctcact gcctctcttt cttaatacag 60
cgctcttccc aaccgctctt ccattctcct tctccaactc caaccctgc ttcctccgt 120
tcattgtgtc actccccatc ttctgagagt gccgggtgtt tgctaccgct ggtcccacac 180
ctcccacatc accgccatca tcatgaccag cttcttccgc cacaagcctt agaattatac 240
tattgccacc ctacctgttt cttcaacaac aaccggtgac ttactacag gcacgtggtc 300

tttctctgag gatccaacca tggcggctgg aactgtcttc tgcgctgctg ctactgctgc 360
 ttctaatttg acaacaacca ctcttcttga caaccgatca cctacttaca ccttctgtca 420
 gactactctc gatcctctgt tactctctgc ctgttcccggt ttcctcggtt caagatctat 480
 agtgagtttc ggagatgctc aaggagggca ggggtgcaat gattcattct tgcggccta 540
 tgatgagaat ggggatgag 559

<210> 12674
 <211> 428
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141g12d1

<400> 12674

gagcacaatg gtattaactg gcctcaaatt gaaaacataa ccctttttta tctgcccatt 60
 tttgtcaatt aatttgctat gtaaattcat cctgggaggg atattctgag ctactttctc 120
 aacaagaaga tctttgccat tttcatttga accaaatfff accttggcaa gcaaaaaaat 180
 tatactatta aagccggcga taaacctcca ttgggaacca accacttgag tgccatttct 240
 tgtttgggct attatgaacc aaccttttcc taccgcatgt gtctaagttg aaacagaaca 300
 acttgatagt aaaagggaaa gacctgcttt ttatgctatc gagaaaattc agttaggcca 360
 catccaaatg gtttggactt tcttcggaat tccgaatfff cctgaaccct ggggggggaga 420
 ggtataat 428

<210> 12675
 <211> 573
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141h01a1

<400> 12675

gctattgatt gagactgagt atgatttttg cgatgctgag attcttggtg aagacatgcg 60
 tgtgggtatt catcgctgca tattggcgct gcgtagtctg tttttccatg agctttttta 120
 gaaagggact gatggatcag gcaaggaagg aaagccaagg tatctcatgt cagatttggt 180
 gccttatggc acagttggat atgaagcttt ccaagtgttc ttgtactatt tgtatactgg 240

aagggttaaag gcttcaccaa cagaagtgac aacatgtgtc gatgaaacat gtacccatga 300
 tgcattgccgg cctgctatca attatgcctt agagctgatg tatgcttctg ccacttttca 360
 gatgaaagag ctggttatac tttgtcagcg gcatctacta aattttgttg agaaggctct 420
 tgcggcagat gtcattccta ttcttatggc tgctttcaac tgccaactag accagcttgt 480
 ctctcagtgc attcgtagag tagcaaggtc tgactttgac aacacatggt tggaaaaaga 540
 gcttcctcgt gaagttgtga ctgaaatcaa att 573

<210> 12676
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141h01d1
 <400> 12676

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 cgtgagggtta gtaatcatat gacctcaata tacacaatga ctgtggcgca caaccgacat 120
 acaattgggc ctggttaatc aagcagaaac gacttgcaaa tagccccgca tgtcagattt 180
 aaagcaataa gtaccggtgg tgagaaagca attctagaac aattgacgat catataacat 240
 ggcagaaaat acacactata gcgctcttga caaggtacta tgatattact aagccaaatg 300
 atgtaccatt ctctccttct aattattcct gatacaacat ctataagaaa ctcaatcaag 360
 ctaggaaaaa gctgccatga ccatcagcaa aaaccctat tttaactgat catctgattt 420
 gccaaatata ccacttgctc tacttgcaag ctg 453

<210> 12677
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220141h02a1
 <400> 12677

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 aggctcttc tgcgttcagat gctaaggaag cctataagcg actgcagaag agagatgttg 120
 catttgaggt tgatatgcct gcatagggtt cctttgccga ctctcttatt gaactgggtg 180

atgaaattat ggcacagggtt aaaactgtat ttattgattc gctgcctcct tcatggaatg 240
 aagattatgt ccgagatctt ctcatgaaat atggagagat tgaaaaagtc gagcttgcta 300
 aggacatgcc atctgctctg acgaagaatt atggatatgt tacacttagt atcacatgat 360
 gctgctgctg aatgtgctga tagcattac 389

<210> 12678
 <211> 589
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141h03a1
 <400> 12678

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 agtcataact gatgcaatgt caaagagatc acatgcattg tcaactatag aaggatacag 120
 tgggtatgga gctgaacaag gtgaaaagcc attaagaagg gcacttgctt caacatttta 180
 cagcgatctt ggcataagaag aggatgatat atttgtctca gatggagcaa agtgtgatat 240
 atctcgtctc cagattgtct ttgggtcaaa tgtaaaaatg gctgtgcaag acccttcata 300
 cccggcatat gtagattcaa gtgtaattat gggccagact ggcctctacc agaaggatgt 360
 tgagaagttt gcaaacattg aatacatgag gtgtaatccg gaaaatgggt tctttcctga 420
 tttatcttca atttctcgac cagacataat tgttatctgt tctgcaaca atcctactgg 480
 tgttgcggca acaagggaac aactgacca actcgttcag ttgctaagg acaatgggtc 540
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<210> 12679
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141h03d1
 <400> 12679

aaaaggaacg gggcccatg tgataaacac cgcattcaca gtttactata aatggctagg 60
 gaaaacatgg ggctttttca aagtgaacgc ccctagatt gagtccaggt gaaaccaact 120
 actgaaacct agggatatat aaagacgaaa ttccgtgtt aaacggctca aaccgtgata 180

tatcccgcaa aaaaattgcc ctggggccaa aggccctaac cgctgtgaaa caccctccac 240
acggggcata tccggttcca agagttgtta ccaccggac tttcctctaa atctaagcgg 300
ttgcatccca tggactcagg gcggaaatga ggtcccatcc ctatggggca tttttccctg 360
cataaacttt aaaccc 376

<210> 12680
<211> 486
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220141h04a1

<400> 12680

cgagatgctg gggaagacga ggaaggtttg ggcgcgtggc gaagccgagg cggcgaacta 60
cgcccttcggt gcctccgaag catgacgtag tcattaaaca caggcttctg acgcgcacga 120
ccaccaccag gggcgaccgt gccttgacga agcttcagac gaggctcacc acgttcgtct 180
ccgaagtcga cagaggcgaa gacatcatct acaacgactg cgagaagctg ggtagagcgt 240
ttctgcagga gctgacgaca ttcgaaagtc cgcttctgaa gagcaaggcg attgtggagg 300
cgaacggtag ggagaaggag aactatagcg agtagaagga ggaaatgaat ggccagatcc 360
tgctggcgca gtccgacatt gaagatgtcc agaagcatct tgtggagagc caggatgaga 420
ggaggcacat tgaggagtgc gaggctatta agaagttgat tgccatgcag tcctcgagat 480
ccgaga 486

<210> 12681
<211> 243
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220141h04d1

<400> 12681

aaaatccaac ccaaacgctt tcaggggacg cattcatttt agggaaaatc cataatttgt 60
actaagggat ctgcactacc acagtactga cgggccattg tcgcgactta tccactcact 120
atcgagaata aaaacacgac tgaaccgtca aaaatgttac aacaggaata ctgatcatca 180
acctagagac tggccaattg ccattgattc gggccacca tttgagagca cctaccatg 240

ctt

243

<210> 12682
<211> 563
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141h05a1

<400> 12682

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aagcccaaag ccaccaccac caccaccacc atcgccgcca ctctcacacc atccaccacc 120
accacccctc gccgcggga attgttgctc atcatcacca ccacatgggt gctccctctg 180
agcccgccac tggcatcctc ggacgaggaa tacgtgaagg agacagagga agtgatcaac 240
aaagcgagga cgacaatcgt gatggacaag aatgacccca acgtggcaac cgcggtagcg 300
gagttacgag aaacctcgaa ctctgggtg gcaaagtaca ggagggagaa agcgcttctt 360
ggacgcgctt cctttaggga catatattcc gcgctcaacg ctgtgtcggg acactacatt 420
agcttcggac caaccgctcc cattcccgcc aaacgaaggg caaggatctt ggaggaggtc 480
gacactgctg aaaaggcgct tctaagggga agatgattga cggggaaaaa aggtgttctt 540
tctttttttt tttgtaatgc atc 563

<210> 12683
<211> 473
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141h05d1

<400> 12683

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atacatgcat ctcttcccct gcgaatgaac ggcataagcg agagcccatg acagttacct 180
ccgtgtgcta cattacaaag atagcacgaa taaaccctt ttttcccct caatgatatt 240
ccccttagaa gcgccttttc agcagtgtcg acctcctgca agatccttgc ccttagttcg 300
gcgggaatgg gagcggctgg tccgaagcta atggaatggc ccaacacagc gttaaccgcg 360

gaatatatgt ccctaattga agcccgctctt agaaggccta tctccctgct gtactttgcc 420
 acccaggatt tccaggctgc tcttatctcc gctacccggg ttgccacgtt ggg 473

<210> 12684
 <211> 562
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141h06a1

<400> 12684

agcaccatgg ccttgccaac agtaatatcc ccgaaatcag acaactcact ctcacccatc 60
 aagccccaag gcaccaacac caccagcacc atcgccggca ctctgacacc atccaccacc 120
 acccagcctc gtcgccggga attgctgacc atgatcacca ccacacggtc gctccctatg 180
 agcccgggac tggcattctc ggacgaggaa tacgtgaagg agacagacga agcgatcaac 240
 aaagcgagga cgacattcgc gatggaccag aatgaccgca acgtggcacc cgcgggagcg 300
 cagctacgag agaccttgca ctctgtgag ggcccgtca ggacggagaa cgcgcttatt 360
 ggactgcgct tgctttaagg acatatattc cgcgctcaac gctgtgccgg gacactacat 420
 tagctctgac caaccgcttc cattcccggc aaacgatagg ccaggatctt gtaggaggtc 480
 gacactgctg aaaagggtgct tctaagtgat gatgattgct gcggaaatac ggggcacagg 540
 gagattatct tagtaatgaa tc 562

<210> 12685
 <211> 406
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141h06d1

<400> 12685

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 ggctacatca tgccttaac ggaaaatgcc tccatattca ccaatgacaa tatgactgca 120
 taccggtatc tattcgctt ctaatgttcg gcataagcga gagccacgct cagtaacttc 180
 agtttgatac attacaaaga aaaaacaaag aaaccctttt cttccccctg aatcatatca 240
 ccattggaag ccccttttga gcaactgtaaa acatctacaa gatcctggcc cttagctcgg 300

ctggattggg accgatgggt ccgtagctta cgtactggcc caaactgcg ataagcgctg 360
actaaatgtc cctaaaggaa gacaccccca gaaggatcat ctccct 406

<210> 12686
<211> 595
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220141h07a1

<400> 12686

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aaagtgagtg aggatgacaa actgattgag tatgatgctc ttctgttgga tcggttcctt 180
gatattcttc aagatttaca tggggaggat ctgaaggaaa cagtccaaga agtatatgaa 240
ctttcagctg agtatgaagg aaagcatgac cctaagaaac tggaagaact tggaaatttg 300
ataaccagtt tggatgctgg ggactctatt cttgttgcta agtccttttc ccacatgctt 360
aatttggcca acttggctga agaggtccag atttctcgcc gccgaagaaa caagttgaag 420
aaaggggatt ttgcagatga gaacaacgca actacagaat cagacattng agaaactctc 480
aaaaacttgt atttggcttg aagaagtctc ctcaggaagt ttttgatgca ctgaanaacc 540
agactgttga tctggttctt actgctcacc ctactcaatc aattcgtaga tcttt 595

<210> 12687
<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220141h07d1

<400> 12687

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gtgcatctga gaacaaaact agagcactaa ctttcagcgc tgcaaccata ttcattgctat 180
cttgatagta ataaaaaaaa ggaaaataca agtaataaat gactcaaaca aacttaacca 240

gtgttctgca tgccaacagc aatacccttc atagtgagaa tgaggggtgtc ttctaaacca 300
 ggagcatatt cactagtcgg gttcagattt ataagttcat cagctgattt gcttgcctct 360
 gcagattcct ttgatatgcg ggggcgcacc ttcacatcgt agttaggatc acggatacgt 420
 ctcaatgtgt aagctcggac aatattgagg gcggtaatgg gagcatgacg aatcctgagt 480
 ctttgcct 487

<210> 12688
 <211> 572
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141h08a1

<400> 12688
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 aacgaggggc accctgacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc 180
 ttggagcagg accctgacag caagggtgcc tgtgaaacct gcaccaagac caacatggtg 240
 atgggttttcg gagagatcac aaccaaggcc aacgtggact atgagaagat tgcgcgtgac 300
 acatgcagga acattggttt tgtctctgat gatgaaggtc ttgatgctga caactgcaag 360
 gtctctgtca acattgagca acagagtcct gatattgttc aaggtgtgca cggccacctc 420
 acaaagaggc ctgaggagat tgggtgctggt gaccaaggtc atatgttcgg ctatgccact 480
 gacgagactc ccgagctcat gcccttgagc catgtccttg ccacgaagct cggtgccaag 540
 ctcaccgagg tttcgaagaa cgggacatgc cc 572

<210> 12689
 <211> 425
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141h08d1

<400> 12689
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tgaacgaggg gcaccctgac aagctctgtg accagagaaa ccaagctgtg ctcgatgcat 180
gcttggagca ggaccctgac agcaagggtg cctgtgaaac ctgcaccaag accgggtggt 240
gatggaaatc ggagagatca acaaccaagc caacgtggac ttgggaagga agcgcggtgca 300
aattgcggaa cattggtttt gcctccgatg atgttggcca agatgctgac aactgcaagg 360
tcctcccccc attgatcaac agagtccatga tctcgctcaa ggtgtgcacc gccaccttac 420
aaaga 425

<210> 12690
<211> 511
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220141h09a1
<400> 12690

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cctaattttc ttttcgatcc aaaaaatggc tctctcgcg c gttgttgctc aatcgtcgca 120
atcgaatctt ctgaaacccc tagcgctcgta cttatcacta cgacgccgtt cggtttcgac 180
ttcgctcagac ccactcacga tagagacctc ggtgcccttc acctcccaca actgcgacgc 240
gccgtcacgc gccgtggaga cctcctcggc ggagctcttt gcgttcttcc acgacatggc 300
gctgatgcgg cggatggaga tcgcggcgga ctgctctac aaggcgaagc tgatccgcgg 360
cttctgccac ctctacgacg gtcaggaggc tgctcgccgc ggcatggagg ccgccatcac 420
gcgcaaggac tgcgtcatca ccgntaccg cgaccattgc accttctctg cccgtggcgg 480
aacctatcg agatcttctc cgagctcatg g 511

<210> 12691
<211> 433
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220141h09d1
<400> 12691

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acctaaaaat aaaataatgg ccaaattttg ccaatcatgg aggtcttgca taacgaaatc 120

cttcaaattt gcaggacact agttgcatgc ttaatcaatt gaggtcatat gagtgttaga 180
 tccttcaaaa ttacatggca aaacattaat ttctgcccga ttgctactga agaatacaatt 240
 tcatatacaa ttcggggaaa gctcaacaaa ttggcagaga tgatcttctg aaccttttat 300
 tcttcattat tttgatcggg tcaaaactaa tgctaagaaa ttcataggaa aagctttaca 360
 tcagggcaaa atatctctaa cttctttcct atgagcgcca catgcctata gaccaaagcc 420
 ttttacatat aca 433

<210> 12692
 <211> 502
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141h10a1
 <400> 12692

gtccccagtt ggaacccatt tccgtagtca aaaccccaga gaacgtagcc acaagggcaa 60
 aaccttccc cccgccatgg cagcggtatc ccggtcctcc cccccgcgcc tcctctactc 120
 cctctgctgc accactgcat cgcggtcacc ggcgtcgtcc ctcatcggcg gcgccttcca 180
 tctccgccac ttttcagccg ggaacgcggc gcgcacgaag ccggacaagg agccgtggtg 240
 gaaggagtca atggagcggc tccgcaacat cggaatctcg gcgcacatcg actccgggaa 300
 gacaactctg acggagcggg ttctgtacta cactgggtcgg atccacgaaa tccacgaggt 360
 caggggcagg gacggcgctg gcgccaagat ggactccatg gacttggaga gggagaaggg 420
 aatcaccatt cagtctgctg ccacctactg cacttggaaa gattataaga ttaacattat 480
 tgacacgcct ggatcatgtg at 502

<210> 12693
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220141h10d1
 <400> 12693

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 atgtgtaact tacacaggag ttaggaccca taaccattta actacctgag atataaataa 120

atgattcgta caccatatta tcgaaactac agtaactatt atttgatttc caaaattggt 180
 tgacctcta aaaaatgaat caattcaagc ctatatcta tattattgtc acaactttgt 240
 tgtcttttag taagtgattg tcataaaatt tctttatcat gtacttggac aaaagctgat 300
 tattcacctt gcttattacc cttgtacgtg tttatcagtt gcgtctgtac atcatgagaa 360
 actggtaa at gttgcttggg .ttccatg 387

<210> 12694
 <211> 560
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220141h11a1

<400> 12694
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 cttgcaagat caattatctc gtccgaacaa cgggctctct ctgcaactat ctcttcgagt 120
 gcaactacct gccactaccg gaatctggac tcgacgacgg attgatgacc cctgactcgg 180
 ttctcgaacc ggccgggttc gcccgaaact cgtccgggtc gggagggtac ggagggtgg 240
 attgcagaac caccttggct tgcaactcca ccaccgaaat tgtgagaaag aagaggaccg 300
 gcgggtccac ttcccgcca ccgtgccggc cggcgtgctc gccagtctcg gaaatctcag 360
 cgggtctcat gaaccggagg aaagggaacc ccagcgggc cccactctat tgaagaactt 420
 gcgagagagg gtgaggaggg ttcttttgaa atgaaaacan gaaaaaatac tttatcaa at 480
 attatattct aaatatcgg atattatgga ggttaa atct ggggctggaa ccttgaacct 540
 actatacctt acaggggaag 560

<210> 12695
 <211> 373
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220141h11d1

<400> 12695
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gctgacacca ccaaattcat gtttaaagac cggatagatg acccctgaat cggaacaaca 120
 aacgaagggg tgatcccgtt cccaaaactg gggggggttt ttctttcttc cctgtaaggg 180
 gaaacaagtt ccaaggcaca acccgatatt taaacgccag actgataacg atcttaagaa 240
 aaacaatacg tgcaaaaagg ctttatccgg gctaaatfff aaaagaaccc cttgagcttc 300
 tcttgaaagg ttttcaatgg aaaggggccc gatggggggc tccttgccca cgttgcaaga 360
 gaccccggtg agg 373

<210> 12696
 <211> 547
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf10222014h12a1
 <400> 12696

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 gcaactacct gccactaccg gaatctggac tcgacgacgg attgatgacc cctgactcgg 180
 ttctcgaacc ggccgggttcg gcccgaacct cgtccgggttc gggaggggtac ggaggggtgg 240
 attgcagaac caccttgggt tgcaactgcca ccaccgaaat tgtgagaaag aagaggaccg 300
 gcgggtccac tttccggcca ccgtgccggc cggcgtgctc gccagtctcg gaaatctcag 360
 cgggtctcat gaaccggagg aaagggaacc cccagcgggc cccactctat cgaagaactt 420
 gcgagagatg gcgaggaggt tcttttgaag tgaaaacaag taaaaatact ttatcaaata 480
 tgattaatct aaatattgct attattatgg agcttaaatac tgggggttga actcggatac 540
 tactata 547

<210> 12697
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf10222014h12d1
 <400> 12697

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gaaactagat gctgataacc atgaaaatga tccagagctg aagaagattc gtgaagagcg 240
 tggttacacc tacatggatg tttgtgaggt ctgcccagaa aagttgccaa attatgaaca 300
 gaaaatcaaa agcttctttg aagagcatct tcacactgat gaggagatcc gcttttgtgc 360
 tgctggaagt ggctattttg atgttaggga tgcgaatgaa gcttggattc gtgtgtgggt 420
 caagaaagga ggaatgatca tcttacctgc cggaatttat catcgcttta cgctagatga 480
 agagcactac atta 494

<210> 12700
 <211> 554
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220142a02a1
 <400> 12700

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 acccaacaaa agaacgttca tttttcattt tctgttctaa taaagagcat ggccggtggt 180
 tctatcaaga gacattcttt ctccgaagag gaccatgggt tctgttcttc catggagcct 240
 ggggtattctg ggcaaacca ccacttccat catggtttcg tgtctaggac tttgggttat 300
 ggcactttct acaaccgagg tgtaggagc cattcgattt tctcgccgag atctgggaga 360
 ttttatgatg caagattcga agatcaccaa cccactttc ttcaagcttg ttctctttgc 420
 aagaagcgtc tcggggataa tagtgacatc ttcattgtaca aaggggacac gcctttttgc 480
 agcgaagagt gtagacatga gcaaattggag agagacgaag cccaagagat gaataataac 540
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<210> 12701
 <211> 517
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142a02d1
 <400> 12701

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gttctaagca ctcacctctt tcatacacgt ttgttcgctt gttgagaagc catgggcgag 120
 gatttcgagt tcccaagtgc tggcaacatg gaaatgcctg aggaggaaga gtttgagagt 180
 ccgatcctga aggttgggga ggagaaggag attgggaaaa tggggctgaa gaagaaattg 240
 ctcaaggaag gtgaagggtg ggacaccctt gacagtggag accaagttga agtgcattat 300
 actggaacct tgcttgatgg aacccaaatn tgattctagc cgcgataggg gcacccctt 360
 caagttcaag ctaggccaag ggcaagtgat aaagggatgg gatgaaggta tcaaaccatg 420
 agaaaggatga gaatgccctt ttcacatacc cccgaattgc ttatgagagt tgggtctctc 480
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<210> 12702
 <211> 585
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220142a03a1
 <400> 12702

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 ccccatcttct tttcttcttt cttcttctct ttcgcttctt cgatcttcga tcttcgtcgc 120
 tgaaaatgag agagtgcatt tcaatccaca tcggccaggc cgggattcag gttggaaacg 180
 cctgctggga gctttactgc ctggaacacg gcattcagcc tgatgggcag atgccaagtg 240
 acaagaccgt tgggtggagg gatgatgctt tcaacacctt cttcagtga actggggcag 300
 gaaagcacgt gccccgtgcg atttttgtag atcttgagcc cactgtgatt gatgagggtta 360
 ggactgggac ataccgcaa ctattccatc ctgagcagct cattagtga aaggaggatg 420
 cagcaaacaa ctttgcccgt ggccactata ccattggaaa ggagattgtt gagctntgct 480
 tggaccgcat cagaaagctt gctgacaact gcacaggtct tcaaggtttt ctggttttca 540
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<210> 12703
 <211> 459
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142a03d1

<400> 12703

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aataacattg gcccatgacg cgacaggtgc accacctagt aatcataatt ttacatcttt  180
acatacaaaa aacaaagact ttaaatttta aaaagaagaa aagagataaa cagatcatct  240
taatgaaatg aaacaaaaac ccacaaacat tggctagatt tttgtagttg ttgttgaggc  300
caacatgatt aatcatgaac cgagagaacg aatcactttg actttaaggg aatggccctg  360
attaccaact gccgtttgag tgctgcaaga gctgaacttg tgaatggtgc cacccaaaac  420
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<210> 12704

<211> 590

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220142a04a1

<400> 12704

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gagatctctc cgctggttca gaatcacatc aaacggggtt attttacgtt atgttgcgct  180
gtggtggctg ctgctgttgg agcttttctt catgttctgt ggaacattgg gggttttctc  240
accacgttgg cttccattgg aagcatggtt tggttgctat ctacaccccc tgttgaagag  300
caaaagaggt tgtctctggt gatggcttcg gccttgtttc agggcgcttc cattggacct  360
ctgattgatt tggctattgc cattgatcct agccttattg ttagtgcatt tgtggcaact  420
tctttggctt ttgcttgctt ctctgcgga gctntagttg cacggcgtag ggagtacctc  480
taccttgggtg gtttgctttc ttctgggctg tccattotta tgtggttgca cntgcttcc  540
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<210> 12705

<211> 368

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142a04d1

<400> 12705

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ttttccacaa actaaattac tggagaaaaa cccgggctcg aggcggggcg tcagcctact   180
aaaaccccc tttcttcttt ttctcacttc cctcagagga atttttcacc atttttatta   240
gaattcttcc aaagattgcc gcccaattag ggaacaaagg caatgggtgt ttcacaaaat   300
tccgggcacc aaagggggcc cttccaagat attcttgggg ggggtacttta acgtgggcca   360
caaacccc                                     368
  
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<210> 12706
 <211> 552
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142a05a1

<400> 12706

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gggtcaactg acaccctccc atttgctaca atgggatcag gttcacttgc tgcaacgtct   180
gtatttgagt ctaagtacac ggaaagtttg agtcgggatg aaggcattaa gctcgttggt   240
gaggcgatat gtgctggtat atttaatgac ctaggaagtg gaagtaatgt tgatgtttgt   300
gcgataacca aggacataa cgaatatctc aggaaccacc ttctaccaga tcctcgtagc   360
tatgtcaatc caaaaggctt tgatttcccc aaatagacag aggtcctctt agcatagatt   420
acaccgctga aggagaagggt ggaagtgatt gcaggagatg ctatggaaga gtaacaatca   480
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<210> 12707
 <211> 458

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142a05d1

<400> 12707

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ccttcaacgg tgtaatcttt gttaagagga cctctgtcctt tttggggaaa tcaaagcctt 180
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ccttgggtat cacacaaaca tcaacattac ttccactttc taggtcatta aatataccag 300
cacatatcgc ctcaacaact agcttaatgc ctttatccct actcaaactt tccttgact 360
tagactcaaa tacagacatt gcagcaagtg aacctgatcc cattgtaaca aatgggaggg 420
tgtcagttga cccatgagga taaaatagtt gcaaatga 458

<210> 12708
<211> 607
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142a06a1

<400> 12708

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ggcatcaaag atctcgggtca caagactctc cttcagagtg atgcactcta tcagtatata 120
cttgaaacca gtgtctatcc aagagagcac gagtgcctga aagagatacg caagatgact 180
gcaaaacacc cactgaacat catggcaaca ccagcagacg aaggacaact tctgagcatg 240
cttgtaagc tcacgaattc aaagaacgcc ttggaaattg gtgtattcac tggttactct 300
ctgctctcca ctgccctggc tcttccctt gaggaagaac ctggctttgg atgggaatcg 360
cgaatactat gagttaggat tgccaataat tcaaaaagct ggagtggctc acaagattga 420
tttcagagaa ggacctgctc ttccgtttct tgacgagatg cttaaagatg aaaataaaaa 480
ggggtcgtg gatttcgttt tctgtgatgc tgataaggac aattacttga actaccacaa 540
gagggtacta gagcttgtga agatggagga ctgatcggat acgataaac cctatgggct 600
ggatctg 607

<210> 12709
 <211> 475
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142a07a1

<400> 12709

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 ggttgaagag aactgagtta agcggcgaag ccaaacgcag aatcggcggc agaaattgcc 180
 accggaagca cgtcgaagac ggggtgaacca aacacaaaat tccatccacc acttctcttt 240
 tcaatcccca actcaaatct gtgaagaaaa tctcaatttc taaattgtaa ttcttagcac 300
 tactgctagt agtagtaaaa aaaaacaatt agaaagtagt agagtgattt ttttttcttt 360
 ttttcgtttg ttttactttt aagatgggtg agaagagcaa cgttggcggc gacgcgatta 420
 acacgacact gcttacggga agtacgagct gggccggctg ttaggccacg gaacc 475

<210> 12710
 <211> 381
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142a08a1

<400> 12710

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 ccccgaccat attcccccaa aatatcaaac gcggtaaaaa taaagcacia ggaggaacag 120
 gcttcaaggg atacatgacc gtatgaagaa caacctaaat ttacactttt aaggcataaa 180
 attaaatgaa ccttctaatac caggaaatcc aattaccata gttcctttcc tgcttaagtt 240
 caaataagag aaccacaaat tgaaaatagg acagagatat gtcaaaaggg ttctgggaag 300
 gcctcacttg gcactcaagg ttgggaaatg cccggcatct tcaatggatg gagcaggtgc 360
 attggttggtg gcacttccat g 381

<210> 12711
 <211> 338

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220142a08d1

<400> 12711

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atattccatt catatacaac attttttccc cttattactg aaaatgtgga attgggatcc 120
tcttgaatat caactcattc tctagatata agatatgcct aacatgaaat caaataatcc 180
caaattatat aagaacattt tgctcctta tttctgaaat agtggaattg gaatccccc 240
tgaaatctca cctcattttc attgggttaa ggattcccct tctttgaaaa caatattatt 300
tcaatttctt ctattaacat tttgcctct catatttc 338

<210> 12712
<211> 133
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142a09a1

<400> 12712

aaggaatgta gtttataata ggcagtgtt gtttagaagt ctagccattg agattatgca 60
gtgatacaaa aacaatcctt ttcttttgcc atatttatgt aattttaaca ttagtaaaat 120
ttctatttct ttt 133

<210> 12713
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220142a09d1

<400> 12713

ctcaaatctc tactgagcta cacganatat atgggggact tcaggaaggc ctaataagaa 60
aacaataat tccaattcat atatgaacat tttgcctcc ttatttcttg aaaaagtgga 120
atggggattt ttccaggaaa tccccctca tttcctttgg cttcaggata ggcctaataa 180
gaaaacaaat tattccaatt catatatgaa catattagcc ttcttatttc ttgaaaatgt 240

ggaattggaa ttccccgagg aattccgata tcatttcctt tggcttcagg ataggcctaa 300
 taagaaaaca aataattcca attcatatat gaacattttt gcctacttat ttcttgaaaa 360
 tgtggaattg gaattccccg agg 383

<210> 12714
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142a10a1
 <400> 12714

attcattcca atgggatcag tttgtgaaga gcgatggata acagttacca tcacaacggt 60
 ggcattggtg atagcttctt cagcaccatt attattggcg gcatgccctt acacctccat 120
 cttcagcttc ggtgattcac ttgcagacac tggcaacttg tatttcagcc cctaccacc 180
 caccaaccac tgccttttcc ctccctacgg cgaaaccttc tttcaccatg tcaactggacg 240
 ctgctccgat ggccgcctca tcatcgattt catcgctgag tcaactggga ttccacgggt 300
 gaagccgcat ctgggaatca agactatngg gagatggagt gtggaagaaa gggggacca 360
 attttgctgt tattggagcc acggctttag atttcagctt ctttga 406

<210> 12715
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220142a11a1
 <400> 12715

ccgcaattgc gaaatctctg gaacaattga tttcattttc ggatactcca ccaccttgat 60
 ccaaaaactcg aagatcttgg tgaggaagcc catggcaaata cagcagaaca tagtggtggc 120
 agatggcaca gggcagaaga acatgcccac aggaatagtc ctccataact gcgagatcat 180
 gccggaccct accctcttgg cagaccgctt gagcgtgaag acttacttgg ccaggccatg 240
 gaaggcattc tcaagggcag tgttcacga gaatgttata ggggacttga ttcagccaga 300
 tggttatatt ccatggaacc caattgaacc aaacacacag gattgctact tcgctgagtt 360

tggcaacact gga

373

<210> 12716
<211> 468
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142a11d1

<400> 12716

agcccccgta ggccggcggt tagtctgatt gtatgtcaga tacagggttag agcaactacc 60
agtcggcgccg cgctccttttt tttctttttt tttttttttc ttttgatttt tattcatgga 120
tgcctttaac ttggccagag gccctgttca ttgaatcagt gaaaaccggg aaaaactcgt 180
taaaaaaaag agagacaaag aagatctaca ctgcaacctt tacgtcgcac ggtgcaccaa 240
acatgaaaag gggctctgcc aaaatcaaga acaaccacg aaaaacatac gcttaatcca 300
ccccctcaat tgtgggacca accccacatt acaatggccg ctgcaggacc ctccctaaatc 360
aaggggccac ccagtataac aaccaacacc gcggcgcacc atttggtttg aagggatctc 420
caatgctgtc caaatccttc atcttattcc aaaaagctgg accctcaa 468

<210> 12717
<211> 405
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142a12a1

<400> 12717

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acggactcgc cttcgcgcgc aacgagctcc agctggagga tgccatctac ttcaaccacg 120
agtttctcca gagcatggga gtgttccata gcaaaacaca ggctggaaat catcaagctc 180
gcaaagaaag acgttggcgg cgggtggggcg gcgatgatga tgaggagcag catcagcatc 240
aagtgttcta tcaagaagtg cctgaggaag tgcttcagct agctcgcttc gcgtgaagat 300
caccaccaag cgacgattgc gacaacagcg atgatggcga ccgagccgta atggtaccaa 360
gggaagtgga ggaaggcaag gcacaatggg aacaatgagg atctc 405

<210> 12718

09313

<400> 12718

<210>	12719
<211>	459
<212>	DNA
<213>	Glycine max

<400>	12719
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<210> 12720

<211> 542
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220142b01d1
 <400> 12720

cggcttcaac cttgtagtta ttctctttct tcttttttag ctatccctct cttgaaaaat 60
 ctagatctcg ttcttccttg atctacgtta cgcttttagt gaccggatct gtatggatct 120
 gaaccagatc tacacgccga tgggtggtttt ggcctggtct ttcatagatc tgatgcatgg 180
 aggctcagat ctactgtaca gagatactgt agataatcga tgagaagaac gcagatccag 240
 ccgcttcgcg ttgttcgatc gctacagacg cttgtatcgg attattcatg attgattcat 300
 aagcagcatg tcttcctccg gctatagttg ttgcagatct cggatgttgt aaaattagtg 360
 tatgatgtga agctatgggc tggaaaatgt ggatgtagga gatttcggga cgaaaggcct 420
 caaaacgctt cgtcggttgt gggttactgag tcctgagtga tcttgtcacg cgacctttgc 480
 catgacaggt gcgcttgctt ggcaggtcaa atatgttaat aaaaaagttt attgggttagg 540
 gg 542

<210> 12721
 <211> 575
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142b02a1
 <400> 12721

cttctcataa gctttactta attagcaaatt ccaaataagg cactttcttc ttcacatctt 60
 tcaacatcca tatgtgcttt agctttgttc actcttttgc ttataggaag ttcttcagct 120
 caactctctg agaacttcta tgatagtaaa tgtcccaagg ttttctatgc cgtaaaatcc 180
 gttcttcaat ctgctttggc taaagaacct cgccaggagg catctatcgt tcgcctcttc 240
 tttcatgact gctttgtcaa tgggtgtgat ggatcagtag tacttgatgg cccttcctca 300
 gagaagactg cacctcccaa caataactct ttgagagggt atgaagtcac tgatgccatc 360
 aagtctaagg tcgagacagt atgccccgga gtgggtgtcat gtgctgatat tgtaaccatt 420
 gctgctcgtg actctgttgc aatccttgga gggccatatt gaagggttaa cttggtagaa 480

gggattccac gactggattn ttcaaccttg ctagcagtgg tgtgctccca ggacctgggtt 540
cttcctcag cgacctttat caaagatttg atgat 575

<210> 12722
<211> 445
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142b02d1

<400> 12722

tatggattgc ttcagctctt catgctgctg ttaactttgg acagtatcca tatggaggtt 60
taatcctgaa taggccaact attagcagga gattcatgcc tgagaaaggg tctcctgaat 120
atgatgcgtt agctaagaac cctgagaagg agtttttgaa gactattact ggcaagaaag 180
agaccctcat tgaccttaca attatagaaa ttttatcaag gcacgcatct gatgagttct 240
accttgggca gagagatggc ggtgactact ggacttctga tgccggggcca ttagaggcct 300
ttaagaggtt tggaagaat cttgaagaga ttgaaaagaa gcttatagag aagaacaata 360
atgagacatt gagaaaccgc tatgggcccgg ctaaaatgcc ttacactttg ctctatcctt 420
ctagtgagga gggattgact ttcag 445

<210> 12723
<211> 503
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142b03a1

<400> 12723

aaagaatccc aggcgaggag aaagatggag gggaaggagc aggatgtgtc gttgggagcg 60
aacaagttcc ccgagagaca gccgattggg acggcggcgc agagccaaga cgacggcaag 120
gactaccagg agccggcgcc ggcgccgctg gttgaccga cggagtttac gtcattggtc 180
ttttacagag cagggatagc agagtttggtg gccacttttc tgtttctcta catcacgctc 240
ttaaccgtta tgggagtcgc cggggctaag tctaagtgtg gtaccgttgg gattcaagga 300
atcgcttggg ccttcgggtg catgatcttc gccctcgttt actgcaccgc tggcatctca 360
gggggacaca taaaccggc ggtgacattt gggctgtttt tggcgaggaa gttgtcgttg 420

cccagggcga ttttctacat cgtgatgcaa tgcttgggtg ctatttgtgg cgctggcgtg 480
gtgaaggggtt tcgaggggaa aac 503

<210> 12724
<211> 421
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142b03d1

<400> 12724

gaaaataaat agatgcatat atatgactct ggtgttattt gggattttgc aaattaaatt 60
acacaatcac agccgtacat cacacatgag ttgggcctct tccaacttaa aagcagagga 120
taacattggc ccattgacgag acacatgcac cacctaataa tcataatttt acattttttac 180
atacaaaata caaagacttt aaatttttaa aagaagaaaa gagataaaca gatcatctta 240
atgaaatgaa accaaaaccc acaaacattg gcttgatttt tgttgctggt gttgttccca 300
acttgattaa gcatgaaccg gttgattgaa tcaactggac ttgaagggaa tggccctgat 360
tacgaccttg tggtagagtg cttgaagagc tgcaccgatt aatgggtcccc ccagaagat 420
c 421

<210> 12725
<211> 599
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142b04a1

<400> 12725

aaaccaactc cttcctgctt gccccttctc agatcgccgg ttccggtaag tcccaaaact 60
cgaaccctag ccctaaccct aaccataacc ctaaccccag ctattcgaat tcccctctc 120
ttcgcgcaat catggcgacg tctttggtga gctccgctgg tgggatgctg gcgatgctga 180
atgagccaca tctctcgctg aagcttcacg ctctctccaa cctcaacaac ttggtcgaca 240
ccttctggcc agagatctcc actagtctcc caaagataga gagcctgcat gaagatgagg 300
agtttgatca acatcaaagg caacttgctg cacttcttgt atcagaggtc ttttattacc 360
tgggtgaact taatgactcg ttgtcttatg cccttggagc tggtcctctg tttgatgttt 420

cagaggattc tgactatgcg cacactcttc ttgctaaagc cattgatgaa tatgccagcc 480
 ttaagtctaa ggcagcagag tcaagtgatg aatctatcat agtggacca aggatggaag 540
 caattgtgga gaggtgatg gataagtgat cgtggatgga tataccaaca gctatggga 599

<210> 12726
 <211> 69
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142b04d1

<400> 12726

aatgggttct gaatttatta acaccggggg tcataattgt tcaacgttat taaatatact 60
 aacaaaaag 69

<210> 12727
 <211> 146
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142b05a1

<400> 12727

gtgcagagac tatgggatcg aatagcagaa agcgagcttt ctgactgtgt tatgttgtct 60
 gtcgttacca ccagcaacgc ggttgacatg aagctaaccg aacagggatc atacataaac 120
 ctgactgttt tgggcatgat ggaaat 146

<210> 12728
 <211> 215
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220142b05d1

<400> 12728

ctgccctgta tgtcaattga catctacca anaatatccg gggagaccac cgcacactac 60
 tccgcggccg ccctttatta attttttttc tttctttttt ataaaccata atgcataata 120
 gagatcattt ggggaataag tattcaccaa gcaatttatg gatacaaaaag gcggctcctc 180

taaaatttaa tggtattaag cacacaaggg gaaaa

215

<210> 12729
 <211> 487
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142b06a1
 <400> 12729

tcgaaacaat gatttgagcg gtgagattcc ccaaacgggg tcgttttcga accagggccc 60
 cactgcgttc ctcaacaacc cgaacctgtg cggatttcct ttgcagaagc cctgcgcagg 120
 ttcggcgccg agcgaaccgg ggctcagccc tggttctcgt ggggcgcacc ggcccacaaa 180
 gaggctgagc cccagttcga ttatcttgat ctcggtggcg gatgccgccg ggggtggcctt 240
 gattggactt gcggtggcct atgtttattg gaagaggaag ggcaagtcca atgtgtgtag 300
 ttgcactttg aaaggggaagt ttggtgggga gaggaggagt tgagcttggc ttgttgtaga 360
 gaggggggaa atggccacag acatggggag ctaatggtag cttaagattt gaaattgagc 420
 tgaaacatgg agccaatgct ggacttgcaa atgcatttga acttctcagc cgatcaaaga 480
 caaatat 487

<210> 12730
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142b06d1
 <400> 12730

aaaatcataa tgcataatag agatcatttc ataaataagt attcagcaag caatttatgg 60
 atacaaaagg cggctccgat aaaatttaat gttattaagc aaacaagggg aaaaaagaaa 120
 aagagtagca gagtcggttt tccacgagac gagaagagac acgcaactcg ataagtatca 180
 caaaagatta cagaagaaaa ggaacattct cttctcaact atatcctatt tgttgctggt 240
 gctgaggtgg ttggtaacca ggataccccg gataactgcc atacatgttg ggatcctgtc 300
 cagcagcagg agcataccca taattttcat aaccttgtgc agcataccca tagtatccac 360
 caccagaacc agcaccacca ttccactggt ttggatctgc ctgagcctgt ttgttagaag 420

gactgcggcc ccatgaaaga cgaacatt

448

<210> 12731
<211> 131
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142b07a1

<400> 12731

gtctggctct tgaattgatt tcggcatgct atacacttga acaccacacg acaaccggac 60
catgactatc tggcatggtc attgggagag ccttgagaag gcccgacgcc actcacgata 120
tgtagcacc a 131

<210> 12732
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220142b08a1

<400> 12732

gaacaaaaac tggagcgtgt tggccccctt gcagtncaac cttaaattta ccggcacgac 60
ccgctcacta gggctcgggc gccctctcaa ctctctcaa caatttcttt ttttcttttg 120
ggctgctcaa attcaagcag ggggatttgt atgctcggcc tcacagaatt actcagaatg 180
ctccctcttc tccccggat tctgtaagtc cagactgcaa tgcttgcaact cctctgctca 240
aatatcgac ctatttctca ctaccaaca attaacaggg catgacaatg gaggcaaatt 300
ccaagctgtg tcaccccaa caactgctgc gtaatgagcc agaccgagcg cagagcgcca 360
gaaaagatat caaggagctt ctcaaagcac caattgcctt gctggcttta tccgatccgg 420
acggggtgat gctggtactt ataataagaa tattgccgag tgg 463

<210> 12733
<211> 532
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142b08d1

<400> 12733

agaacaagtg tgcaaaatgc caatgcaatt atagtaaaaa tcagaagaac aaaatccaac 60
tagtttccaa gcagtgatgt caaaaatgcc aaaacagcaa taataattat gatatttaga 120
aaatagtttg actgtagagg cttatctggg cttccaccaa tcgcctcata ttcagcccgt 180
atcttctgct tcataccgtc agacagttct ctctttccag tggagtactt ggctgctaca 240
aacttctctg ccctgcatt tggagaatca tctatcacia tgcctctctg aggatcaa 300
ttggctccaa ggttgctaag ttttgcattg gcttcagcat aatctttaa gaatgcttcc 360
tgatcttcag catatttctc agcatatacc ttgaaggatg ggtcttcaaa aagagcagca 420
tcagttggca ataccaatag atcttcatcc ttttttctt tgatgtcctt gaagtaagag 480
ttgtcaaatt tcaaccattg cactgtccag gattgtcctt cgggtgctcc tg 532

<210> 12734
<211> 500
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220142b09a1
<400> 12734

aaaaaatcgt agttggaggc gccgcactcc actccactcc aatcaatcag atactagcga 60
tgaggaggaa gcgaaaggta gcaccgaaat cttctgtatc cgccgagccc ccgctgaagc 120
aacaccaacc aaaacccgaa aatgccgctc aggaatacga agaagaggctc gaagaggaag 180
ttgaggaaga agaggtagag gaagaggctc aagaggaaga agaagaagag gaggacgaag 240
aggacgagga agaagaagaa gaagaccaa aagaccaata ccagcaccaa caacaacagc 300
aagacgaaga cgacgacccg atctccaagc ttctggaacc gttgagcaag gaccagctcc 360
tcatecttct ctgcgaggcg gcggccaagc accaagacgt ggctgagagg atccgaaggg 420
cggccgacga ggatccggtg caccggaaga tatttgtcca cggattgggc tgggacacaa 480
ccgccggaac cctaatacgt 500

<210> 12735
<211> 451
<212> DNA
<213> Glycine max
<223> unsure at all n locations

<223> Clone ID: jC-gmf102220142b09d1

<400> 12735

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 ccatggggag ggatttttcc aaagataatt tgttaaatat tttacaacta acaagaccct 120
 ttcagaattc aattcacttt tccttaaaga aaaaaaagaa tttcaaaatt acatcttttg 180
 tactttgcct tttccctott tattgggggg caacactacc aaacttaact gaataacatt 240
 gtccataaaa tgcccaaacc gaaaatatct ctttggccat cctttttggg cccctatattt 300
 ttattccctt atcataacca tttggtatta ctggttttat cccacaagtc tccaaaaaaa 360
 gttctggcgg aaaccaagct tggaaaaaac ggaggttcaa ggaaaaaatg agttaacgag 420
 ccctcccagt tttaactcaa cccaagtcgg t 451

<210> 12736
 <211> 326
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142b10a1

<400> 12736

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 gaacgaatca ataacacgaa tacctcaagt gagagggaga aatggaatcg cctccgcagc 120
 tgggttcaag aggggcagaa acacttaaac atatagctcc tggatcatca atttctgttg 180
 catatcacc atcttttgga ctttatgatg acctcctott tctagagctt gatgagaaac 240
 ttctcccaga tgttctgaat gaaaggggtg tcttgagagg acagcctgat gaagatgccg 300
 ttctttgtac tctatccaaa acctat 326

<210> 12737
 <211> 449
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142b10d1

<400> 12737

accagaaatt ataaacttta atttagaagt cctaaacatt gccatttga agggggggag 60

aaaaaaaaa gttctgttga agattcacaa gtccattcta ttttgccctg aaaactggtt 120
 ttgtgtcagg ggatggttgg gtccttcgag ggtatttgag tagcaaccct ttgaaaaaa 180
 gacctggtcc cttcaaattt ttgatatagg ggtgcaaaat tttccattcc cattttggcc 240
 tttttttgaa aaaaatggaa aaaccctcgg ttggaggggg agggaaaaac cccaccttga 300
 aggccccaac cctgttttaa actccaagtt tttttgttaa aacctcttct ttcacaaaaa 360
 aaaaggggga agccttcctg gtggaaattt ttgtttccat tcatccatga aactttttta 420
 ctttttctta ccccttttta ggaattttt 449

<210> 12738
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220142b11a1
 <400> 12738

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 gaacgaatca ataacacgaa tacctcaagt gagagggaga aatggaatcg cctccgcagc 120
 tgggttcaag aggggcagaa acacttaaac atatagctcc tggatcatca atttctgttg 180
 catatcacc cttttttgga ccttatgatg acctcctctt tctagagctt gatgagaaac 240
 ttctcccaga tgttctgaat gaaaggggtg tcttgagagg acagcctgat gaagatgccg 300
 ttctttgtac tctatccaaa acctatgcta tgaagtttgt tggaacttcc aattctgttc 360
 tgcttgtacc tncagcaaat cattcgggaa ttagtgaaa atccacaaaa gaatgatagt 420
 actaatgatg aa 432

<210> 12739
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142b11d1
 <400> 12739

tgtgagtttt ttatcttttg tttgcagatt ataagcccc tcatagaaaa caagagaata 60
 ggtgacaaac aacacgcaga accaagaacc ggcataaga acgagcgcac aggactggat 120

005413 032200

gccatgagca acaaacaggc ctgctatcgt gaccaagtct gcactaaaac tcaatgcaga 180
aatggcatg eggacatcat aaaacgaacg aaaggtagag actctcggtc atggtaacat 240
gaacatcgcc caatcaccac ttgagaggcc gaacattatc aacggccgca cacagaagga 300
acgccaccaa aagctggcca tatacatgaa taagaggaac cacaggaatt tcgggaggaa 360
aatcaagaat gactgcacga aggcacttgc tgacagtcac tcaggaatcc ggggaaaata 420
cgcgaggact gaagaatcag catgtcacac ac 452

<210> 12740
<211> 494
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220142b12a1

<400> 12740

gtgctgccc tctcttagat cgacttggtta aggatattgt gactgaaagt gatcagttca 60
gtattgaaga atttatacca ttgttgaggg agcgcatgaa tgtactgaat ccatatgtcc 120
gtcagttttt ggtaggatgg attactgtat tggacagtgt cccagatatt gacatgcttg 180
gttttcttcc tgattttctt gatggtttgt ttaatatgtt gagcgattca agtcatgaaa 240
tacgtcaaca agctgattca gctctttctg agtttcttca agagattaag aattcaccat 300
ctgtagatta tggtcgaatg gctgaaatac tggtaaaaag ggcaggttct ccagatgaat 360
ttactaggtt aacagctatc acatggataa atgagtttgt caaacttggg ggagatcagc 420
ttgttccata ttatgctgac attcttggag cttgtttgcc ttgcatatct gataaagaag 480
agaaaattag agtg 494

<210> 12741
<211> 500
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220142c01a1

<400> 12741

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 cctactcaag aaagtccttc gaatagtcac actttcagac tttgattcca ggcttcagaa 180
 gacgcttctt ctacgaaccc ttcaagacca cttgttcgct gtctctgtcc ccgaatccgt 240
 tctcgaaacc ctcgagctcc tcgaggaact tcaccgtcgc gacgactgcg ctctgatcac 300
 cgtegccgcc atgagcgccg tctactgcmc cattgcggcg gactgcactc tcaagcacct 360
 gctgggtgaa ctccacatca accctgccta cctcggcgcc gtgaacagga tatggcgtgg 420
 tagggttcgg cacatgagcg gttccagnga gggcagactt cttctctcgc tggagttgga 480
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<210> 12742
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220142c01d1
 <400> 12742

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 gtttttcttc tttctagatg gtaatggtat cgaggggatt tattcttgac aggcattgtt 180
 tttgttgaat tgatagcagg atgatcagag actgtgcata agaattatag ctaattgttt 240
 atgcaatgaa atgcttttac tattcactaa attgttgcmc ttttcttctt tctaggtggc 300
 aaggatatta tgggttttat tcttgacaga cattttttat ttgtgatttg ttgaattgat 360
 aacaggctga tcagagactg tgcacaagaa tcatagctga tntgttatgc aatgaactgc 420
 ttttactatt tcagagacaa atc 443

<210> 12743
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142c02a1
 <400> 12743

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gttcgaccac tagttcgatc gcgaacgcgt agacagagat cgcgactacg agcacaatcg 120
tctactccac aaccgccatc aacgtagaga attctcatac tgaggggtcat ggggtaccggt 180
caccatagct ttatccaccg ctatcagacg atgtcgcagc cgtctccgcg gatcgcaagc 240
agaatgccag cgtgtttcttc cgtataggca ttccacgctg cagaagaact gcgttctaata 300
agacaagtca gcgatgatcg cacaacagag cctgccggtg gcgctgccga tgtcgacgcc 360
gctgccactg cctattcggc acacctgatg actatgtcga acgggtacta cggatgtagg 420
aagatca 427

<210> 12744
<211> 120
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220142c02d1
<400> 12744

gttacaacaa ggatttcttt aacttataat aagagtttta actttccatg gcgcaataat 60
ggaaaattgt ggggatctgg tgacagaaac ggagaaccat gcctatatgg ccgcatgcga 120

<210> 12745
<211> 561
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220142c03a1
<400> 12745

cctccctcaa atcccaaacc agcaaaaacc tttcttcaca aaatggcctc aacaactcta 60
acaaccctca cctccgcac gctatcttat cctacacct cctcttctta ccctacgcac 120
ctctccgcca aacctctct cctccaattc cccaatctct cccaccgcgc cgtcaccacg 180
cgccgcccc gtgtcgtcgt ctccgccgtt gagggcgccg agaaaatcac caagctcggc 240
gacgaaatcg ccggactcac gctcgaggag gccagaacc tcgtcgactt cctccaggac 300
aagctcggcg tctccgcggc ggcgttcgcc cctgtggcag tcgccgcggg tgccggcggc 360
gctgtggcgg acgcgccggc ggtggttgag gagaagacgg agttcgacgt ggtgatcgag 420
gaagtgccga gcaacgctcg aatcgcggtg attaaggcgg tgagggcatt gacgaaccta 480

gcgctgaagg aggcgaagga gttgatcgaa gggttgccga agaagttcaa ggaagggatt 540
tcaaggacga agctgaagat g 561

<210> 12746
<211> 471
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142c03d1

<400> 12746

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gtttccttat tacaaaaaaa agattgaaat tcctacaaaa tggaaatgaa aattcagggg 120
tctgggtgaac tcaacttcaa ccaacaaaag aagaagcaca acatttttgc tgtacctaaa 180
caggggtttta acaaaggtaa ccttggcacc agctttttcg agttgcttct tcgcattttc 240
agcttcgttc tttgaaatcc cttccttgaa cttttttggg aaccctttga tcaactcctt 300
cgcttctttt aaggcttggg ttgtcaatgc cctcaccgcc ttaatcaccg ggatttgagc 360
gttggtcggc accttcttga tcaccacggc gaactccgtt tttttcttaa ccaccggcgg 420
ggcgttcagc acaaggcctc cggcacccgc ggtgaatgcc acatgggcaa a 471

<210> 12747
<211> 549
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142c04a1

<400> 12747

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attacaatta tctctctaag tacacccacc cagtctgtgc tatatacttg tattatctct 120
atattattac actgatcttg aataagcatg gcagagaata ccacgaacac ggtggaggtc 180
caattgggtt gcggttcgat gggaagaatt ttgcatctca aaacctatca caggactaga 240
aaatcctctg ctcatcact acccgtgaag gcttgcaaca aactgctca gtaacagacg 300
gatcaggcca ataacgaagc caaacctct ccaaaccatg aatcaaatgt tccaagagat 360
agctgcattg gaaccattcc tacactgaaa gtggagcaga atccagcgag agagagcagc 420

tatagtcacc gtgcaccttc agcataccag atcactcaaa acgggagagc ctcggacgct 480
gcacgaacct caattcaacg aagccacgac tcatatgaag agagtataca tcatcagatt 540
gagcacgct 549

<210> 12748
<211> 445
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220142c04d1
<400> 12748

ccaaaccatt atgcactgag tgggaggaat taaagacctc ccaaaccattc aaaagtatta 60
ataaagtcaa tttctaacaac aaaggatcac tttttctata cctttttcta cagcttttaa 120
caatgctatg tttcatctat ggattcctct gacttgggag caaggtgacc aaatttatga 180
agcagatata atcagcttga ttaattttcg gcaatcttcc tttccattca taaaaatcta 240
acctccctcg gctcttcta tatgttggga atcaaaaaag ggtgaatacc ttccgctgct 300
ctataattta actaatttgg ccaacaaaac gcggttgta actggaatta ctttaaatccg 360
tgatccattc tcgaatatta taaaggctgg gatgtagttt acaccttttg atttagccaa 420
aatgggtgga cttcaatctt cacct 445

<210> 12749
<211> 469
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220142c05a1
<400> 12749

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tcagcaccgt acaagagctc tctgagtcca ccgctgtctt ctacgtagca tgaatgagct 120
gcgctgactg caccggatgc gcgtagaagg ccgtaacacg cctccgaggc atgcgtgtag 180
ccatcgaatg cgtcctgaac gtcctagctc acatcctgtt cgacccttcc ttctgaacg 240
tggagactat tcacgaggca actgaggacg ctaggatcaa agtcgagtat ctacagact 300
acgtagaatc cattcaagta tgcctgatcc agaccatagg attgatctgc agctcctgct 360

cgtacagtct ggaatccgta ctgcaagccc ttgacggagt ccttgaagcc cgcgtagggcc 420
 ttgccaccga agaggcccat gtacactaca acccaattct cctcaccac 469

<210> 12750
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142c05d1
 <400> 12750

gtgcagaaga gaggaagtat aaatttttaa aggaaagaaa agagcccttg gaagttgtta 60
 cacctttgtt cactaggcta aaatcatgac gagacgacac ttataaacat gattacatac 120
 aaaagtggct ttaagccaaa ccatcaatcg tgatgctgta tatatcactg ggtgacgcaa 180
 cccttggtgcc acgtatcttg aggttggtata gcttcctggg tctcctggga taatacaaca 240
 tcggagaaca gtagaccatg ctgacagagg aggcacccat agaagaccca gctgtccggg 300
 gtggcaatca gaaccgtgca tgggggggaa gagctccata cacatttggg atgccaagca 360
 gggtataacc caaagcccga aag 383

<210> 12751
 <211> 478
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142c06a1
 <400> 12751

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 gaagtgaaca tgggtgaaag ccatgcaaat ctcaaaataa gatccaagaa gcgccccaaag 120
 cagctcttga agttggtttc tggtttgcat accatgcgcc tcacaatctt gcacctaaat 180
 gttactacca ccggtgaagt tggttctctac tctcttagtg ttaaggtaga agatgattgc 240
 aagttgggat cagttgatga tatagctgca gctgtgtacc agatgctaga taaaattcag 300
 caagaggcaa tgttgaatta agatcaaacc ttgaccaa atgccttgcc ccactttggt 360
 ttttaacctca tgtcaacacc ttacttcatg gtggggatca tgtctctcgc tatttttctc 420
 tataaggatg tacctaatta ttgcactttc tgttcacttc accctttgtt aatctact 478

<210> 12752
 <211> 509
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220142c07a1

<400> 12752

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 ctttgccttc tctttctctc tctagaattc tcagatttgc ggggagagat gatgcagcag 120
 ccaggaccgc gcatggcacc tcccaccatg ggccagcagc cgccgcaaca gtaccagcag 180
 cctccgcccgc agcagcagca accctacgtc atgatgccgc cgcaggccca ggccccgcag 240
 gccatgtggg cccctccgc ccagcctccg ctcagcagc agcccgccag cgccgacgag 300
 gtccgaaccc tctgggatcg gggatctgca gtactggatg gacgagaact atctctatac 360
 ctgctttgct cacaccgagg aggttacatc ggtaaagta attcgaaaca agcaaactag 420
 tcaatctgaa gggatttggg ttatttgagt ttaataagtc gtgctggagc tgagagaatt 480
 cttcaaacat ataatggggc antaatgcc 509

<210> 12753
 <211> 543
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142c07d1

<400> 12753

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 taaagtttca tattaaataa aaataagaaa attgaacacc atataaataa agataaaaatt 120
 cataaatatg agtcttcaag tttttgatta aggtatgatg ttaatcaaaa gtttcaagaa 180
 gtgttattta actaggtagt agtacttttc ttttcattat tggtatcatc actgtcaact 240
 ttttctcctt taccaccatc atcaatttcc tttctctgct ggtcctcttt ggccctcttgt 300
 tccttctttt tagcctccaa tttctgagtt tctttcttct ttctcatgaa atctataagc 360
 tgttcgaggc tagtttcgat gtggctgctc ttcagaagct gttctgctac ctcagcagga 420

gtcacctggg ttttctgcat ctcttcctcg atcttttcga agagagaatg ctctttgatt 480
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tga 543

<210> 12754
<211> 499
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142c08a1

<400> 12754

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gtccgatccg tggcgagcga cctcctcccg tcggagctcc ggtcctacat caccaacggc 120
atgcacagca tgtcctggcg cttatactac catataaccc tgcaaattga cgagctcgac 180
ggcctcctca acaacctaata gtacgaggcc gacgaaacct acctcggggc caaaatgtct 240
gccaacacac gcagacttaa agtcagcaag cccgagacag acacaacctt agccctgaca 300
atggagcgca acgagtcctt aaccgacgtt ttcagaagca tgaaagataa cagagttctc 360
gtctgccgtc atgtcaagtc cagaggcttg cacaaccctc gcgacctcaa cgccaccatg 420
aaatccgagg ttcgctccct cgaactcact tttaacaaga agcataaaga catggtgctc 480
cagacctatc ttccctata 499

<210> 12755
<211> 551
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142c08d1

<400> 12755

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taaagtttca tattaataaa aaataagaaa attgaacacc atataaataa agataaaatt 120
cataaatatg agtcttcaag tttttgatta aggtatgatg ttaatcaaaa gtttcaagaa 180
gtgttattta actaggtagt agtacttttc ttttcattat tgttatcatc actgtcaact 240
ttttctcctt taccaccatc atcaatttcc tttctctgct gttcctcttt ggccctcttg 300

tccttctttt tagcctccaa tttctgagtt tctttcttct ttctcatgaa atctataagc 360
 tgttcgaggc tagtttcgat gtggctgctc ttcagaagct gttctgctac ctcagcagga 420
 gtcacctggg ttttctgcat ctcttcctcg atcttttcga agagagaatg ctctttgatt 480
 ccgaggtaat atggagctag ctgcctgaaa ccacagggag tgcaatagga catgtgaatg 540
 tgaacatcca t 551

<210> 12756
 <211> 520
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142c09a1

<400> 12756
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 agaggctctc ttccaatttg aagctagcga ggatggacaa gtccagttct ttccaaatgc 120
 tccagttgat gttgacaatt ctcccagctt tgttgccatc aatgtcagtc ctattgagta 180
 tgggcatggt ttgctgattc cgcgcatatt tgagtgtttg cctcaaagga ttgaccgtga 240
 gagcttcctc cttgcacttc agatggcagt ggaagccgat aatccttatt ttcgattggg 300
 ttacaacagc ttgggtgctt ttgcaactat caaccatctt cacttccagg cttattattt 360
 ggctctgccc ttccaattg agaaggcccc cactaagaga attgcaagtg taaatggtgg 420
 ggtgaagata tctgaactgt tgaagtatcc ggtagagggc tttgtctttg agggcggcga 480
 aaatgctgga agatctatca aacgttggtt cagatgcatg 520

<210> 12757
 <211> 143
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142c09d1

<400> 12757
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 gggaagaact tggttatttt cagttatagt aactacaaac ataaaagtgg ccaataaaca 120
 attaacaaaa acatgatatg acc 143

<210> 12758
 <211> 408
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220142c10a1

 <400> 12758

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 gcttccattt atagtctcag tcttcttctc ttcttctctt cttctcttct tctcttctct 120
 tgtctcacga tctcaacgga gcacctctct tcaggtcgcc atctagactg caatcatggc 180
 tgatggacca cagcatccat cagttgttca gaagctagct ggacagtctt acctggtgtc 240
 ccaggctagc cccaacttta actctgggaa ttattcctcg actgggtctt acttcaatgg 300
 aggactgcac tcttctgggt tggctgttgt gtcgcctgga tctccagtta ctgtgcatgc 360
 tccagcagaa aaggagtgag tggatttcta gtggattttc tgatgggt 408

<210> 12759
 <211> 510
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220142c10d1

 <400> 12759

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 taagctgatg gcatgaaatg aaacaaccaa aatgaaaatt cttgtttcca aaactatgat 120
 ttctacgtat caaggtccta aatttgggaa aatatcaata ccaatatttc tcatccaaaa 180
 ttattcaaat gacaagggaa toggcatgat tatccagga aattgtcgtc atcatcttag 240
 ccacctccac cagatccgta tttctttccg aacaagacaa gctgcagctt gtcataacca 300
 gcaagcacac cagcacctgc aacagcacgc aatatgtttg caccagcacc tttgaagagt 360
 gacttggcac cctcatttgc gacgattgtt tggaatgcat gcaaagagct cttgtacttc 420
 acagcctctc cagaagtcac catcatcctt ctacgaacag tgtcaatggg gtaagaagcc 480
 aaccagcacc aattgtgatt ccccatccca 510

<210> 12760

002220 "E F F E S S O"

<211> 316
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142c11a1

<400> 12760

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taactgacaa gctaaattct tcttctaaat tcttgtagga tggaactagt cttcgggtca 180
cgtctgtgtc aacagggaaa tatctatgtg ccaagcctgg aggggggaaat gtcctacttg 240
cgaacggcac aagcgcttca acggcttggg aaacaattac attgtggagg ataaacgaag 300
atactttcag actaag 316

<210> 12761
<211> 481
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142c11d1

<400> 12761

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gatacaggtg aagaagtttc gtcgtaaaac taagcaaaaa agtaaaggac aagttatttc 120
acaaagtatc ttatcatcgg caccaaaaaa gcaagcgcag gggacttctt aattcccagg 180
tatcataaaa atttaacaga ctccgactaa tctagagctc atcggggagaa tcgtcctcgt 240
cttcttcgcc tgatgcacca ccaccgcctg gggctcctcc agatctctga ttcacagcac 300
taatgattgg gttgcaaacg gtttcaacct ccttcagctt ctcttcataa tcttctttct 360
ccatactctg ggtgtcattc agccattcca gtgcttcttt cacagcagtc tcaattttct 420
ccttttcatt agactccaac ttgtcagcga gcttgtcctt gtcactgac tggggtcttca 480
t 481

<210> 12762
<211> 455
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142c12a1

<400> 12762

caactgtact ccatatcata tcaactggag ctggggaacc tcgtctctac tcgcgctcgt 60
ccccgccgga gatccaccat ggccggcaac tccgccaccg ccaccgccac ctctctccga 120
ttgtctcccc agaatttgaa attcaatttc tccccgata acccctcccc aatcatcttc 180
acttcggatc aggtcaacca ctgtacccaa gccctcaacc ttctgaagga gaagctccac 240
gatcctcacg tgatcactca ggagttcgca cacttgcagg cgaacaggat aactccgagt 300
gagatgagaa gaagatgcac cgtcgcgtat gacgccgtca atttgagcaa aaaccgatac 360
acggacgttt tgccatttaa caagacaggg ttgttctcaa atcaagtact gattataggc 420
ctgaagcaca ggggtatatc aatgcaagcc ttatc 455

<210> 12763

<211> 521

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220142c12d1

<400> 12763

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cccaacccta cattaagggg gtaggtgaaa ttgatgtgtt ctctgtggtct caccgtacac 180
gcttatgatt cttgttgatg atgctggcgg actcattcct gcactcaatc attcaccatg 240
gaatggctta acgctagctg attatgtcat gccatatagc ctatctattg tgggtgcttc 300
gcttgactc acatacaaga aactgcatcg cggagactat gcatctacga aagcaagtca 360
actgactcta caacttccag agtcaggcct tttcattcgc gaggtaacta ccatgccctg 420
aacgatcgga cctatagcat ggactcgaag cagatgagat ggatggcact acctgacaca 480
attcatgtag cgcactctggt ttcctcactg cgcgcaattt g 521

<210> 12764

<211> 608

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220142d01a1

<400> 12764

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tgagtctgtt cgtggaggcc gtggaggtgg acgaagtggg ggacgtggat ttggacgtgg 180
tcgtgggttt agtcgtgact cttccaatga cgagaactca ttccctacca gcggagctcc 240
ttataatcag gtttcttttg aaggagatgc tgggaagtct tctgaaagac gcggttatgg 300
tggaccacga ggtccttacc gtgggtgggtg tggtcgtcgt ggaggtttca gcaatggtga 360
aactggtgaa gctgaagaag gacgacctcg aagagcattt gatcgctcgca gtgggactgg 420
acgaggaaat gaattcaacg tgaaggctca ggacgtggta actggggagc ccaaactgat 480
gaacttgctc aggttaactga tgaagttgcg aatgaaactg aaaagaatcg ggtgatgaga 540
agcctgcagt tgaaggagat gtaactgatg gtaccaggac agccctacta atgaaactga 600
agaaaaga 608

<210> 12765

<211> 517

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220142d01d1

<400> 12765

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cttccgggtga aaaccagttt ccccgccaga agcaagacac acagcctggc aaagagtatc 120
tcatgaatcc accaccccaa tacaacagcc ccgattacaa gccatcaaat aaacttcatg 180
gaaaggtagc tgtagtaact gggggtgact ctggaattgg acgagcagtg tgcaacttgt 240
tttcattaga ggggtgctact gttattttca cctacgttaa ggggcaggag gagatagatg 300
caagggacac gcttgagatt ataagaaagg ctaagactga agatgccaaa gatccaatgg 360
ctgtagcggg tgatcatttg ggttatgaag agaattgcaa gagagtgggtg gaccaggtgg 420
tcaacgctta tggcagcatc cacattctgg tcaacaatgc agccgtgcag tacgagagtg 480
attcacttga agagattgat gataaaagac tcgagat 517

<210> 12766
 <211> 208
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142d02a1

<400> 12766

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 ggttggtcca ttctactagt acttcttact ttctgcggta tcctctgttc ccgtcacaa 120
 tgagattaga taaatgttaa ttagtgtctt aacaaagagt tggacgtgga tatggacttg 180
 gacgtggggt tagccgtgac tataacaa 208

<210> 12767
 <211> 275
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142d02d1

<400> 12767

tttttttttt tttttttttc atatcttttt tttttttttt tgtactcata tttttttgag 60
 ggcacttttt aacacactcc caccttttta ttgcgagggg aacagcgcgt tcccataaa 120
 gtaaaaagtc ctactgaatt tgggccacca acaccccccg aataaagaca cataaattca 180
 acttttttgt ggaccattgt aggaccatat tcatgcccaa aaaccatctt ccctacttct 240
 gagtgtgcat aatttaactt attatccggg ggct 275

<210> 12768
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142d03a1

<400> 12768

cttcagaacg tcgaaattcg cctctgggtt caaccctctg caacggaagc ctttggattt 60
 gggccggata tgggtccacgg cggaggattt gggccgtaac agggcccggg tgctgtcgct 120
 gtaccggcaa atactgcggg gcctgaactc gccggagttg cggctgggct tcgcggcgag 180

gctggcggaag aaggcggagg cgcgggcaat gttctgggtg ggttctgatg aacgctcggt 240
gcacaacatt gcggatctca ttgatgctgc agagtactct ctctcctttc tcagaaaagg 300
acaactccct cctcgttaca tcaactgata aacgttggtt tccatcaacg acccttctca 360
gaaaattaac aaaccttatt accttaagga ttttgtttagc aagtagtgga gcaagcaagg 420
gctgtcctgg caggaggtag tgcgccaagg atccctctgt cggctgagca gtacaattcc 480
gttgggattg cttttc 496

<210> 12769
<211> 423
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142d03d1

<400> 12769

aaaggagagg aaattctgat tatattgctt gcttccattt gactacattg tttgctatat 60
acaagctttt ctgctaacac ttcgctaata gtgctttggc atattgcctt ggaggaaaaa 120
acaaaaagca aaattacaaa aagtgaaaag caatcccaac ggaattgtac tgctcagccg 180
acagagggat ccttggcgca ctacctctg ccaggacagc ccttgcttgc tccactactt 240
gctaacaaaa tccttaaggg aataagggtt gttaattttc tgagaagggc cgttgatgga 300
aaacaacgtt gatcatttga tgtaacgagg agggagttgt ccttttctga gaaaggagag 360
agagttctct gcaggatcaa tgagatccgc aatgttgtgc aacgagcgtt tattagaacc 420
cac 423

<210> 12770
<211> 566
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142d04a1

<400> 12770

cttcagaacg tcgaaattcg cctctgggtt caaccctctg caacggaagc ctttggattt 60
gggccggata tgggccacgg cggaggattt gggccgtaac agggcccggg tgctgtcgct 120
gtaccggcaa atactgctgg gctgaactc gccggagttg cggctgggct tcgctggcgag 180

gctggcgaag aaggcggagg cgcgggcaat gttctgggtg ggttctgatg aacgctcgtt 240
gcacaacatt goggatctca ttgatgctgc agagtactct ctctcctttc tcagaaaagg 300
acaactccct cctcggttaca tcaactgata aacgttggtt tccatcaacg acccttctca 360
gaaaattaac aaaccttatt accttaagga ttttgtagc aagtagtgga gcaagcaagg 420
gctgtcctgg caggaggtag tgcgccaagg atccctctgt cggctgagca gtacaattcc 480
gttgggattg cttttcactt tttgtaattt tgctttttgc tttttccctc caggcaatat 540
gccaaagcac cattagcgaa gtgtag 566

<210> 12771
<211> 495
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220142d04d1
<400> 12771

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acaagctttt ctgctaacac ttcgctaatt gtgctttggc atattgcctt ggaggaaaaa 120
acaaaaagca aaattacaaa aagtgaagg caatcccaac ggaattgtac tgctcagccg 180
acagagggat ccttggcgca ctacctctg ccaggacagc ccttgcttgc tccactactt 240
gctaacaaaa tccttaaggt aataagggtt gttaattttc tgagaagggt cgttgatgga 300
aaacaacgtt gatcagttga tgtaacgagg agggagttgt ccttttctga gaaaggagag 360
agagtactct gcagcatcaa tgagatccgc aatgttggtc aacgagcgtt catcagaacc 420
caccagaac attgcccgcg cctccgtctt attcgccagc cttgccgtga agcccagccg 480
caactccggc gagtt 495

<210> 12772
<211> 429
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220142d05a1
<400> 12772

gaacctatc gccgagtgt cactagccct ccagccac atattcgacg ggcgctagt 60

tcāgcaccgt acaagagctc tctgagtcct ccgctgctct ctccgctcgcc tgaacgagct 120
 gcgctgcctg caccggatgc gcggtgaagg ccgtcacacg cctccccggc atccgtgtag 180
 ccatcgactg cgtcctgaac atcctagctc acgtcctggt cgacccttcc ttcgttgacg 240
 tggggactat tcgcgaggca gttgaggact ctaggttcga tgccgagtga ctcacagacg 300
 acgtcgaata cgatcaagta tgccctgatcc agatcatagg aatgagctgc agatcctgct 360
 cctacagtct ggaatccgta gtgcaagccc ttgacggagt acttgaaacc cgcgtggggc 420
 ttgccaccg 429

<210> 12773
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142d05d1
 <400> 12773

gactgtatcg tagtgaagct cgaataatct ccgggtcgac agcggggggg cggcgggccgc 60
 cctttttttt tttttttgtg cagaagagag gatgtataac tttttaaagg aaagaaaaga 120
 accgtaggaa gctgtcacac ctttggtcac taggctaaaa tcatgacgcg atgacactta 180
 taaacatgat tacatacaaa agtggcttaa agcagaacca tatattgtga tgcgttatat 240
 atcactgggt gacgcaaccc ttgtgccacg tatcccgagg ttgtatagct tcctgggcct 300
 gctgggaaat ttcaacaacg gagaacagta gacaacgctg acagaggagg cagccatagc 360
 acaccagca gttcaggggt gcagtcagaa ccttgcatag ggggaaagag ctccatccgc 420
 aattgggatg ccaagctggt tattacccaa agccggaaag 460

<210> 12774
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220142d06a1
 <400> 12774

atcctttcgt tattctctta ttcaccttc tcttctgaat aatccagatc tctttctgcc 60
 cttttctccg tcacgctttt cgtgaccgga tctgtatgga tttgatccag atctacacgc 120

cgatggtggt tttggccggg tctttcatag atctggtgcg tagaggctca gatctacggt 180
 accgaggtac aacagagaat cgatgacaag aacgcagatc cgacggtaga tccagccgat 240
 tccgcttggt cgatcgctac agaccctgt atcggatcat ntaagcagcg tgtctggcgc 300
 gttctacacg tgttgccgat ctccgatggt tgtaaattag tttatgatgt gaagcttgga 360
 gtgaaaatat gtggatgtgg aagatttcgg atgaatggcc tcaaacg 407

<210> 12775
 <211> 478
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142d06d1

<400> 12775
 gaacactaca aatagaaagt tgacatttaa taaaccaaag caacacaacg cagcaaagtc 60
 ctgaaactcg ctgcgcttaa caaaaatgta atcaggggtt ccgacaaaca caacacatta 120
 aaacacagat aaataaaagc aattttgcc aacgctgatca agaaccagtc tctgggaaca 180
 acagttgcga gatgatggtg gagacttcaa actttgtccg aaaaacaagc tacctagaaa 240
 agaagacaca agagtacaga aaagaaacca acatttattg taaqcaacat cccctgatga 300
 accagcccg cagattcact tcttcttctg ggcagccttg gtgaccttg ctccggtagg 360
 aaccttcttc tcaacgttct tgatgactcc cacagcaaca gtttgacgca tgtccctaac 420
 agcaaaccta ccaagtggag gatactcggg gaaagtttca acaccatggg tttgggtg 478

<210> 12776
 <211> 398
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142d07a1

<400> 12776
 gtttctctg atcgtgtcag aaatataaaa gtttatttcc tctgatcgtg tggtttctga 60
 gttctaagca ctcacctctt tcatacacgt ttgttcgctt gttgagaagc catgggagag 120
 gatttcgagt tcccaagtgc tggcaacatg gaaatgcctg aggaggaaga gtttgagagt 180
 ccgatcctga aggttgggga ggagaaggag attgggaaaa tggggctgaa gaagaaattg 240

ctcaaggaag gtgaaggttg ggacaccct gacagtggag accaagttga agtgcattat 300
 actggaacct tgcttgatgg aaccaaattt gattctagcc gcgatagggg caccctcttc 360
 aagttcaagc taggccaaag gcaagtgata aagggatg 398

<210> 12777
 <211> 408
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142d07d1

<400> 12777

acaatggaggt tcccacactt gccacacaag ttaaaagtgt attgcactcc aaacattgga 60
 agagccccta ttaacttaaa cttataaagg gattgcaccc tcacatttat atgcccataa 120
 atcaaataaa tttaaaaatt taaattctgt ttgcaaatg gggtgaaagg cccctgggta 180
 ctaagttgat gatccaaagg ggcccatctt gttttatgcc aaaaccaaca aggttaagat 240
 aaaacatgtt atgggaaacc attttgtgaa tttactccac atcaccttgc ccacaaacac 300
 cgtgcccata tagaatgtgt ctttgcgggg caaatacggg gacccgcctg tacgaagtgg 360
 catttttgggt ggggttccaa ctaacaaaaa atgcttggtta agaacagg 408

<210> 12778
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142d08a1

<400> 12778

aatggcacgt cgctacgtng acagctctga cgtaaagtgc acgcgtgcgt acgcgtgac 60
 ttcgggtcgg gctccctccg ttttatcttt tgacgtaaca aagtgcacac tacccaacag 120
 aggtgttacc tagctataac ggcacttaca gagacattca tgacgtaggt cacacactgc 180
 tcgtggcaag atcaaacata aatcgggtgaa gacctgctgc tataacaaaa gacaggctgc 240
 atgcataatat gaatttacag tgaaacaagc taccttatcg ccagtcgtta tatatatata 300
 tatatagata tagatatata tattcacgat ccttagctct taaaagagaa caaacgcga 360

tctacgccta cgtgcatggg gacacaccgc cacgaattca tgggtgggga tccctctgtg 420
aactaatgac c 431

<210> 12779
<211> 319
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142d08d1

<400> 12779

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aaactatttg tttatagagt catgcattct gaatcagatt gtgactctta atctgtttta 120
catataagaa aattaaatc cagttaatta agcgcgagca ttctaatact tctcttttaa 180
tctgtgaata tacatagaga aattaagtat atagtttctc aaaattcatc ttgttggtgg 240
agaaagttgt gcctgaatga ggaagcttcg gcttacctgt aatagcacca catccactga 300
cgatgttggt accgtcctt 319

<210> 12780
<211> 345
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142d09a1

<400> 12780

gataattctg cagccgtatg tgaatacgtg ggtgagggtta agtgtggcat tgctgacata 60
gaagtgacca tgggtgaaag ccatgcaa atctaaaataa gatccaagaa gcgccccaaag 120
cagctcttga agttggtttc tggtttgc ataccatgcgc tcacaatctt gcacctaaat 180
gttactacca ccggtgaagt tggtctctac tctcttagtg ttaaggcaga agatgattgc 240
aagctgggat catttgatga tatagctgca gctgtgtacc agatgctaga taaaattcag 300
catgaggcaa tgctgaatca agatcaaacc ttgaccaaac ttgcc 345

<210> 12781
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220142d09d1

<400> 12781

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tgcgggccgcc cttttttttt tttttataat acattathtt tacatgggtg ttatccaact 120
caggatcggg gggaataaat tgccggctat gcttgtcttc tgctggcca aaggaattcg 180
ttctacgttt tactttttaca ttactacccc cttttctttg ccccatgttc ctatccttaa 240
cttatatcgt cataatgggt tgcataaaaa tcttactttt gaaaataacc atcttgcggtg 300
tatatatgta tcacaaagtt caacaatgga aaatttaatc ctctaaagtt taaatatttg 360
ctcttttcta aaaatcaaac ctctcaaagc ttttctaaaa tgatacattc ttacacccca 420
cactgggttcg ccaacaatcc ttcattacta actgtcttat aaagctttta ta 472

<210> 12782
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220142d10a1

<400> 12782

ttgatgaaga tttggctgag gaacttcaga atcagatgga acaagattat gacattgggt 60
caacaataag agacaaaatt atccctcatg ctgtatcatg gtttactggg gaggctgttg 120
agggagacga gtttgaagac ctggaagatg atgaggatgg agatgacgat gaggatgatg 180
aagaggagga tgaggacgaa gatgatgatg acggcgatga agaggaggaa gacagtaaga 240
ctaaaaagaa gtcatctgct gttaagaaga gtggaagggc acaggctggt gatggtgagc 300
gacctccaga gtgcaagcag cagtaattgt ttatttcttc ggagtgtcat gtggctgatg 360
ggtgtttttg aggtcctatg gtgcgcctga tnaaaagtgg gttttcagtt tcatgcaatt 420
tttcatgg 428

<210> 12783
<211> 444
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142d11a1

<400> 12783

tgggcataag catgaactta gtgacctact tgggttgaggt tttgaatctc ccttcagctg 60
 attctgccac catagttacc aatgtcatgg gaactctcaa cctgcttggc cttcttggtg 120
 gcttcatagc tgatgccaaa cttggcagat acgtaactgt tgccatatct gcaatcatag 180
 ctgctttggg ggtgtgtttg ttaactgtgg ctacaacat tcctagcatg aggctcctg 240
 tgtgcagcag tgtcagaaaa caacaccatg aatgcattca ggccagtggc aaacaattgg 300
 ctttgctatt tgcggcactt tacacagtag caggggtggg tggaggaata aaatccaatg 360
 tctcaggttt tggatcagat cagtttgata caacagaccc caaggaggaa agaaggattg 420
 gtgtttttct taacaggttc tact 444

<210> 12784

<211> 595

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220142d11d1

<400> 12784

tccttttttt tttttttttt taacatagtt tctcttttaa ttttattaaa atcatttttg 60
 ggcaactgta ttccaaagct gaatacagga ttagcaagta gataaataag ataaatgttg 120
 atttgtatcc tttcagctaa atttctagcg tgacaagaaa cacacaaaga tctagaaaag 180
 acagtcgaac atttgagaac tccaccattc acgcaacctg ttttaatgaa aggaatatct 240
 gtcataaaaa atctagatga agagaaaatg atcagatgat gcggcggcac agggtaatcc 300
 catcacccac ggggagctgg caaatctcga tcctcgaatc ttgagccaga tacttgttga 360
 gctccatcac atggccgcga agaggcttaa tgtaatccat caatggtgca tcgggtggtg 420
 cagccacaga tccagcccat aggggtgttat cgtatccgat cagtcctcca atcttcacaa 480
 gctctagtac cctcttggtg tagttcaagt aattgtcctt atcagcatcc acgaaaacga 540
 aatccaacga ccccttttta ttttcatctt tagcattttg tcaagaacgg aagaa 595

<210> 12785

<211> 462

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220142d12a1

<400> 12785

tgggcataag catgaactta gtgacctact tgggtggagc tttgaatctc ccttcagctg 60
 attctgccac catagttacc aatgtcatgg gaactctcaa cctgcttggc cttcttggtg 120
 gcttcatagc tgatgccaaa cttggcagat acgtaactgt tgccatatct gcaatcatag 180
 ctgctttggg ggtgtgtatg ttaactgtgg ctacaaccat tcctagcatg aggcctcctg 240
 tgtgcagcag tgtcagaaaa caacaccatg catgcattca ggccagtggc aaacaattgg 300
 ctttgctatt tgcggcactt tacacagtag cagtgggtgg tggaggaatc aaatccaatg 360
 tctcaggttt tggatcagat cagtttgata catcagaccc caaggaggaa agaaagatgg 420
 tgtttttctt cacaggttct acttcttcat cagcataagg tc 462

<210> 12786

<211> 613

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220142d12d1

<400> 12786

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 ccagtcggcg gccgtccttt ttttgtgttt tttatttaaa aatttaactt ttacagcatc 120
 ccaaactcct catgggtgct ggtaaaactt gaatttgagc cccagaaaca gctccacagg 180
 aatgcttttg tggatcaacc aaaaatgaaa attactacaa tatatttgct atgaagggaa 240
 agagaccggg gtagggcggg aaccctatc ggaaattcat tgggcttgga ttttaagactc 300
 ccaaggaagc cacatatgga tcctacctcg acaagaagtg ccccttcact ggcaatgttt 360
 ccatccgtgg ccgcatcttg gctggaacat gtcacagtgc taagatgaac atgaatagcc 420
 ccgtgtagag gaattatcca ccatcattta gccctcttcc ggacgcacac tgacctatct 480
 tgcgacattg atgctgatat atgaactgca cctgcaaccc cagctgattc ccatattctt 540
 caacaacacc gggacttata ttctgttgat cactggtacc accctgcacc ggagcccctg 600
 cataaggcac acc 613

<210> 12787
 <211> 537
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142e01a1

<400> 12787

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 tagaacaaga ggtgccggag caagtttcgt cagcccgaa cgatgaccgg cggcggatcc 120
 acggggaggt tgccgacgtg gaaggagaga gagaacaaca tgaggagaga gagaagacga 180
 agagcgattg cagctaagat ctacactggc cttcgagccc aggggaacta caagcttcca 240
 aagcactgcg acaacaacga ggtcctgaaa gctctctgcg ccgaagctgg ctggatcgtg 300
 gaagaagatg gcacaactta tcgaaaggga tgtaagagac ccacgagtga gattggagga 360
 acaccactga acttaagcgc gtgttcttcc attcaggcaa gtccacaatc ctcgtcatac 420
 ccgagtcctg taccatccta ccattgtagc ccaacctctt cctcgttccc aagccccacg 480
 cgcattgacg gaaaccaccc ttcttcttct ctcattccat tcattcgcaa cataact 537

<210> 12788
 <211> 487
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142e01d1

<400> 12788

aaaaaatcgt agttggaggt tccgttctcc actccactcc aatcaatcag ggactaggga 60
 tggggaggaa gcgaaaggta ccaccgaaat cttctgaatc cgccgagccc ccgctgaagc 120
 aacaccaacc aaaacccgaa aatgccgctc aggaatacga agaagaggtc gaagaggaag 180
 ttgaggaaga agaggtagag gaagaggctc aagaggaaga agaagaagag gaggacgaag 240
 aggacgagga agaagaagaa gaagaccaa aagaccaata ccagcaccaa caacaacagc 300
 aagacgaaga cgacgacccg atctccaagc ttctggaacc gttgagcaag gaccagctac 360
 tcattcttct ttgcgaggcg gcgggcaaac accaacacgt ggctgagagg atccgaaggg 420
 cggtcgccag gatccggggc accgtagaca tttgtcacgg attggctggg acacaaccgc 480

cgaaccc

487

<210> 12789
<211> 551
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220142e02a1

<400> 12789

ccgagtttgc ccacgcaaac gtatcgagcc agcctctcaa gctagggttc ttcaccgcgc 60
tccaaccttc ttctctctcc cttcgtcccc tccaattgga atgtgattgt gacttcacat 120
gctggtagct gacatTTTga aattgtaact gtggTgggag caatattata tattttgcga 180
catcatggag atacagactt gtggcaggcc gattgactcc ttgctagaga aagtgctttg 240
tatgaatatt ctctcgtctg attacttcaa ggagctctat cgattgaaaa cgtatcacga 300
agttattgat gagatctaca atcaagttga tcacgtggag ccatggatga cggggaattg 360
tcgtggtcct tcaactgcat tctgtcttct gtacaagttt tttactatga agctcacctg 420
caagcaaattg catgggctgt taaaacacct cgattctcct tacataagag cggttggatt 480
tctctatctg agatattgtg ctgatccaaa gacactatgg aatnggTTtg agccatatgt 540
aaaagatgat g 551

<210> 12790
<211> 316
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142e02d1

<400> 12790

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attcaatgca ccaggaataa gttttagtat acattatcta taaatgttaa tgatagcatt 120
caccaatcta aacatctggc aacaaaaggg ctagtcccaa tatttttctc catgaaatcc 180
atccaacatc tgatacaagc attccatgat aactttcaat acttccaagt agaccgcgca 240
agtctaataa cctcttcacc tccactatcc tttctaggaa ttctttccat gttggcatct 300

cctttattat ccccta

316

<210> 12791
<211> 514
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220142e03a1

<400> 12791

agcaaaatga acagggcgag gagtgggaga atcctgtcta ccaaccacgt cttctatcca 60
ggggacacac attccatgag ctaaggacca tacttcaatc tttgtgtacc catgggtgta 120
ttggcaacag ggcctgctat aagaggcggg gtgctggacc agcctggtat tgaaaatgtc 180
accctgtcc gtgagtgtga atgtgatgta ccgaactcac ggagctctga cccgacctat 240
cgcgtaatat tgcacaacga cagactcaat atacgggact actatgctcc aggtgctgat 300
gaaggtcata cgtggcatga cccttgataa tgccgataat ctcatgcaag aagcacacta 360
cattggatcg tcagtgggtga tcatgagcga ccaatgcctg tgctgaggat cactgcatgc 420
atctaagatg cattggattg ctcatgtcaa ttgaacctgc atatgggggt cgcagctgac 480
aagtctaact tgaaatcaca ctggctctga tgct 514

<210> 12792
<211> 184
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220142e03d1

<400> 12792

aataagttgt gcacttcttt tttaaaaatg gcctctctca cacgttctaa agataggatc 60
tttgttcatc ataaacataa ggccgaggtg tacacaaaag gtaacgtttt ttattttctg 120
ggttttataa ggccttcatg aggaggggaac ttatgtacac ctgcaaaaag tttcatctca 180
cctt 184

<210> 12793
<211> 442
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142e04a1

<400> 12793

agcaaaatga acagtgcgat gtgtgggaga atcctgtcta ccaaccacgt cttctatcca 60
 ggggacacac attccattag caaagggtcca tacttcaatc tttgtgtacc catgggttga 120
 ttggcaacag ggcctgttat aggaggcgag ttgctggaca agccagttat tgaaaatgtc 180
 acccctggcc gtgagtctga atttgattta cagaactcac ggatctcggc accgacctat 240
 cgcgtaatat tgcacaacga caactacaat aaacgggaat actatgctcc aagtgtgat 300
 gaaggtcata cctggcatga cccttgataa tgcagttaat ctcatgcaag aagcacacta 360
 cattggatcg tcagtgatga tcatgtgcga ccaagcctat gctgaagatc actgcatgca 420
 tctaagatgc attggatagc tc 442

<210> 12794

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220142e04d1

<400> 12794

aatatgttgt gcacttcttt attcaaaggg acaactatta catgttttaa ttatagggtt 60
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 gtttctctaa ggcctttatg aggagggaac ttatgtacac ctgcaaatag tttcatttca 180
 cctttcaata gcataaaagc ccgtgagatt tgaagttaaa cttgtcatca gcaaccacca 240
 tttgtagggt caattgaact gagcaatcca ttgcctttta actgtattca gtgatcttta 300
 acatagggtt gggcacagtt tatcaccact gacaatccat tgtagtgtgc tttttgcatg 360
 aaatttactg tatatatcaa gggtcatttc cgggattacc ttttttagaa cttgtaccac 420
 gtttttccgt atattaaaat tgtactctcg caatttttca ccataaggcg gtgccgaatt 480
 tcgggatttt tta 493

<210> 12795

<211> 389

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220142e05a1

<400> 12795

ccgtagttgc gatatctctg gaacatttga tttcattttc ggatactcca ccaccttgat 60
ccataactcg aagatcttgg tgaggaagcc catggcaaat catcagaaca tagtggtggc 120
agatggctca tggcagtaga acatgcccac aggaatagtc ctccataact gcgagatcat 180
gccggaccct accctcttgg cagaccgctt gagcgtgaag acttacttgt ccaggccatg 240
gaaggcattc ttaagggcag tgttcatcga gaatgttatc ggtgacttga ttcagtcaga 300
tggttatatt ccatggaacc caattgaacc aaacacacag gattgctact tagctgagtt 360
tggcaacact ggaccagggtt tcgttgctc 389

<210> 12796

<211> 389

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220142e05d1

<400> 12796

tgacctgtat ctgtttgtga ctcaccgaaa tattggggga cgagcgcgga gtcggcggcc 60
gccctttttt tttttttttt atttttttta tttggcaaaa aaagaagttt ccattaaata 120
gcggggggcaa aattcccatt ggttttccca tcatcagtgt atgttatatg ctttctgagg 180
acaaaaatga attggttgaa gcaaaaaggc ttaaagtata aatatgaaac gcttcttggt 240
tgattacaaa atagcttcat tagacaaggg ggtggatatg cgtgactgca ttgaaattag 300
gtaatacggg tctgcttat agttttattc agttaggag gctaaaaaag agagtttaac 360
gctcttgatg ctggtttgta gcggattct 389

<210> 12797

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220142e06a1

<400> 12797

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tttattttcc atttatatct actcacaaag caacatcatt tccacttgca tttcacacgc 120
 atgtgagaca cgacccaaat aacacacaaa gcaaagtaag gttgctttgc attgtgttaa 180
 caaacaaggc aacctcatta tttgttgcca ctttggttct gaaaaagttt cttacttttag 240
 ttgtgggttt gctccgttct ctctgttctg gaaaacagaa aaacaaaaaa atatgagagc 300
 gacacagatt gtgttggttc tgttttggtt gctctgcatt cacagtccca cgttgttctg 360
 cgccaatgtg gagtatgac atcgagcatt agtcacgac ggcaagcgca gggctctgat 420
 ctctggttcc atccattacc ctctgtgtac tccagagatg tggccagacc ttattcagaa 480
 atccaaagat gga 493

<210> 12798
 <211> 335
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142e06d1

 <400> 12798

gctgcacgan gcggcgggccg cccttttttt tttttttttt tttttttttt tttttttttt 60
 ggggttaaaaa cagctttttt ttcgggatca ataatacaac attccttggg atacatagga 120
 acccaacccc ttttttttct ccttcttcca ttttcacccc ttataaaaaa agggcgtttt 180
 ttattctttt ttgggcaccc tcaggcttgc gatcatcata aacatgtgga acaatttttg 240
 gcctaaacca atgtgctctc caaaatgtac gcattactta aatgggggatg ttctttggct 300
 cagcccacaa cctggtaatt aaaaggggta ttcatt 335

<210> 12799
 <211> 418
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142e07a1

 <400> 12799

cagagacaga gagtgcttac gcagttttca ctactgttt cagtagtagg gtttttcttt 60
 atcccccttt ttcttctctc ttctctcttt cgttcaccac ttcgacgcta agctaattatt 120

tcattcgttt tcgtgaacgc gctaacggag aacgatttcg gttatagaga gagaaactag 180
gagagataga gagcgattga tcatatatgg atacgcacgc ggtgcatttg gccttggcgg 240
cgatcgccga gcctccgtcg tggccgtgtc ggcgtattac atgcaccgca agacgctcgc 300
gcagctgctg gagttcgcgc gcacggtcga gaggggaagct gacggcgggc gcagttccga 360
caccgaaccg cctacggngc atttgaagaa gcgcctgggc agctccagaa ggcgtggc 418

<210> 12800
<211> 544
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142e07d1

<400> 12800

aaacaaaatt tttatttcat tatatgaatg atacatgacc aaagtaaaac taaaaatcag 60
acaaaacctg gtggcacatt gaattagtat ctccattaca gttatgggcg ttgcatccaa 120
acccaataga aagctcagag tattacacat cccaaaaagt aaaatcctac tacagtttag 180
caccgagatg tcctaaacca cattacatga acacaaattc gagttgtctt ggaagaggac 240
caagaaataa aagctagata atgttcaacc ctgcatccag aaataccaat ccgcaagact 300
cccgtctccc aaaggcatta agccttattg gcaatgttgt tggaaagcca gtccagacct 360
tcgtaaaggc cctccccaga gggtgcacag gtgctctgaa tgtaccagtg acgctgtctc 420
agagagtgga gacccaactt gttagtaatt tagcagaatc attgcattag gaagatcttg 480
tttgtttgaa aacacagcaa tacggcattt cttagtcat cctcattcac attctatgta 540
acta 544

<210> 12801
<211> 588
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220142e08a1

<400> 12801

ccatggactg gttctcctgg ctatccagga ctacgctaga gccatccctc atctacgaat 60
acggcctcgc cttcgcgcgc aacgagctcc agctggagga tgccatctac ttcaaccacg 120

agttttctcca gagcatggga gtttccatag caaaacacag gctggaaatc atcaagctcg 180
 caaagaacga agttggtggc ggtggggcgg tgatgatgat gaggagcagc agcagcatca 240
 agttttctat caagaagtgc ctgaggaagt gctatagcaa gctcgtttcg cgtgaagatc 300
 accacgaagc gatgatggcg acaacagcga tgatggcgac cgagccgaat tggtaccaa 360
 ggaagtggct gagggcaagg cacaatggga acaatgagga tctcaaggga gataataatt 420
 agaatgatcc taataacaat aagggagttc aaagaagtag aactattgca atatcagggc 480
 ctttgatgg ggatggcaga ataattcacg agaagatgat gaacaacacg gggngatgaa 540
 actatttggt cctcttgatg ggaaaatgaa tgggtggaaca atgagaga 588

<210> 12802
 <211> 502
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220142e08d1
 <400> 12802

gcgaaagggg gttgaaactt caaacacaga aactcaagt ggacaagggt ataaaagaaa 60
 caaacaacaaa gttgcagtaa acatcacatt tcaattttcac aagctactaa tcattattgt 120
 accaaaaaac gttgctgtca ctgccatca aggtgtaata atataataat aagccatgag 180
 aaaacaaata caaaataata ataataatct aagttggttt aagatcctca aacaatgtag 240
 gccacattgc ataatcatca tcataatcag cagcatcagc tctgacctta ttgtagggac 300
 tataacccat tgggctctca gtcctatcat ctaaaggcct agttaacctt gggcttctac 360
 tattaacccat ggggtgtctt gcatcaagtg gccagaaaag cctagggctt ttactgagc 420
 ccatgaacct accatcaaga ggcctagtag gggattagc actcatcaat ggacttctat 480
 ttgcacttgc atacatattc ac 502

<210> 12803
 <211> 526
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142e09a1

<400> 12803

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cccatttgat tcccttcct ctcaccaagt tttatgatct ctgtcatttc ctcaactact   60
tttattttcc atttatatct actcacaag caacatcatt tccacttgca tttcacacgc   120
atgtgagaca cgacccaaat aacacacaaa gcaaagtaag gttgctttgc attgtgttaa   180
caaacaaggc aacctcatta tttgttgcca ctttggttct gaaaaagttt cttactttag   240
ttgtgggttt gctccgttct ctctgttctg gaaaacagaa aaacaaaaaa atatgagagc   300
gacacagatt gtgttggttc tgttttggtt gctctgcatt cacagtccca cgttgctctg   360
cgccaatgtg gagtattgat catcgagcat tagccatcga cggcaagcca gggctctngat   420
ctctgggttc atcattaccc tcgtagtact ccagagatgt ggccagacct tagtcagaaa   480
tccaaagatg gaggattgga tgcgattgag acttatgttt tctgga                   526

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<210> 12804

<211> 362

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220142e09d1

<400> 12804

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aaaaaataaa aaatgggttt ttaacggata aaaacgggtt ttattattgt ctacacccaa   60
atatggtaag gtgacctac ccagaccga aatgttatat aaatggccaa ggggttttga   120
ttcttaaaaa aaatattcaa cccgtcttgg aattggctctg taaaagggtta cattacaagg   180
ggaaagccaa ggtcctactt gagaaaatta cactaggcac tgatcttact tttctttttc   240
tcatttcaca agaaggccaa cctgtttaac aaaacccaag ccaggtgatt acatagggtta   300
acctctccct tctttatata tctctcccc tccactatt taaaaacagg tctttctttt   360
tt                                                                    362

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<210> 12805

<211> 407

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220142e10a1

<400> 12805

cggactacag ctggtgttgt tcagcagttt ccaaacaata catgtagtgt atatattact 60
 tactcgaagg aagaagaagc aattcgctgc attcaaaatg tgcattggatt cgtcatggag 120
 ggtagacctt taagggtttg ttttggaacc actaaatatt gtcattgcatg gctcagaaac 180
 atgccttgca gcaatccaga ttgtctatat cttcatgaga ttggctctca agaggatagt 240
 ttcacaaaag atgaaataat ttcagcatac actagaagtc atgttcaaca aattactggt 300
 gctgcagaca atatacaacg acaagcaggg aatgtattgc ctctccatt ggatgattgc 360
 atggataact catcaggaaa accaattgtg aaaaattcat caagtac 407

<210> 12806
 <211> 578
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142e11a1
 <400> 12806

ctcagtctca actctctcca acaaccacaa tggctctctt gggcgccgcc tctcctccg 60
 ctgcattcat tccctccgtc tcaactctctt cctcttctcg ctcttcttc tcaactctcat 120
 cctcttcttc caaactccaa tgcttgcgct cctctcctcg tatttcgcac ctctttctca 180
 atcagcgaag agcggagggt cgcgtttcga gtggaggata cggaactgtg tcggcaccga 240
 agtcagttgc gtctgatcct gatcagttga agagcgccag agaagatata aaggagcttc 300
 tcaactccaa gttctgccat cctattctca ttggtttggg atggcatgat gctggtactt 360
 ataataagaa tattgaggga gtggccacag agaggtggag ctaatggtag cttaagattt 420
 gaaattgagc tgaaacatgg agccaatgct ggaccngtaa atgcanntga actcttcagc 480
 cgatcaagac aatatctggt gtgacatatg cagactatct cagttgcttg tgctcagctg 540
 tggagaagct gagcccaaaa tctatgaat atggagag 578

<210> 12807
 <211> 557
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220142e11d1
 <400> 12807

tgcttttttt ttttttttca ctacggagtt gagatttttag cgcatacat acaagattgg 60
 gtccgggtac ctaagtaata acaagtgata ttgtgaaatt atcgtaatca gaccaagtt 120
 gaaatgagat cagaacaaaa cttaaatata tctatcaact gccttgattt gcccaaaaaa 180
 gaacgagatg ggctgagacc tgtgatgggtg atagccgtca aaaaaattgc tttaacacag 240
 aagggcctga gggcctagat ggagatggaa aattatttgg aacaccttct tgatgcccc 300
 acaagataaa catgccagtg ctttcacacg aaaatgcac atggagctgc aatgcattct 360
 cctcgagtgc cattggaatt caagtctcag gtgcactact ttaagctggg gaacatttga 420
 acattaatat gcaatccttt caagattttc ggagacagtt atcattctag gcctgacttc 480
 agggcttacc tcagtgcatt gtaatgctac atgaaacaca gccagtacct ctttcttggc 540
 atgcacttca tggagca 557

<210> 12808
 <211> 534
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220142e12a1
 <400> 12808

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 ctgcacatcat tccctccgtc tcaactctctt cctcttctcg ctctctcttc tcaactctcat 120
 cctcttcttc caaactccaa tgcttgcgct cctctcctcg tatttcgcac ctctttctca 180
 atcagcgaag agcggagggt cgcgtctcga gtggaggata cggaactgtg tcggcaccga 240
 agtcagatgc gtctgatcct gatcagttga agagcgccag agaagatata aaggagcttc 300
 tcaactccaa gttctgccat cctattctca ttctgttggg atggcatgat gctggcactt 360
 ataataagaa tattgaggag tggccacaga gaggcggagc taatggtagc ttaagatttg 420
 aaattgagct gaaacatgga gccaatgctg gacttgtaaa tgcattgaaa cttcttcagc 480
 cgatcaaaga caaatattct ggtgtgacat atgcagactt atttcagttg gctg 534

<210> 12809
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220142e12d1

<400> 12809

gctcccccttg gccggctttc tntgtactgt angcaaatac cggtaagagc aacatacagt 60
 eggcggcgtc cttttttggc ttttttcttt gttttttttt tttttttttt tttttctttt 120
 ttttttttgt ctggggcaaa ttgccgcgcg tttatggagc ttgcttgacc accttcgaag 180
 actccgagaa tgagagtga taccgggtacg ttcgcaaggt atcaggacca gtcgtcgttg 240
 cagatggcat ggctggggct gctatgtatg aactcgcgcg tgcgggtcat gataatcaca 300
 ttggcgaaac tattcgtctc gaagggaatt ctgcttccat ccaagtttat gaggaaactg 360
 ccggcttgaa ggctaatagat ccgggggttac cgactcacca gcctataacc cccgcagtcg 420
 ggccctggaa tactggggaa tcttcccat ggaaatcaga ggcccttgga a 471

<210> 12810
 <211> 601
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142f01a1

<400> 12810

gatggatgaa gttgatacac cttatgtttg aatccaccaa cactggacta agacttctgc 60
 tgagcagcac tatggggcta tttctgtggg aaagagaacc gtgactcact tgcatagccg 120
 caagatcgag gcgactcagg ctacatagag aaactggtac atagtccgca tagcttggtg 180
 tataagaaca ctgctggaca ttgacataaa ccagctgacc atgagaggct gcatgagaca 240
 gattgacacc aagaatgacg gaaacaccga gtgcgacggc gttggcattt tgggcatcgc 300
 ttgggccttc ggtggcatga tcttcatect tgtttactgc accgacggca tctctggggg 360
 acacatcaac cctgcggtga cattcggggt gttcctggga cgcaagggtg ctttggtgag 420
 ggcgttgccg tacatgatag cacagtgcgc cggtgcaatc tgcggtgctg ggttgggcaa 480
 agggttccag agatcgtact acaacaggta cggaagtgga gttaaactg ttagcgatgg 540
 ctacaacaca ggtaccgctt tgggagctga gataattggt acctttttct tgtctacacc 600
 g 601

<223> Clone ID: jC-gmf102220142f02d1

<400> 12813

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aggaaaagag gaaagaggga aggaaaaaaa aaaagaggaa gagagaagag aaaaaaaagg 60
aagaggggaa gaaataaaaa aagaaggaaa atataaaaaa aaaaaaaggg gagaactgat 120
ggtaacacna cnaanaatat cggggagacc agcagaggga gaaggaaaaa aaaaaaaaaa 180
aacaaaagaa aaaaggaaaa aatataggaa aagaagaagg aggaaaaaga gagaaagggg 240
gggggaaaga 250
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<210> 12814

<211> 393

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220142f03a1

<400> 12814

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cctcggggaa ttccaattcc acattttcaa gaaataagga ggcaaaaatg ttcatatatg 60
aattggaatt atttgttttc ttattaggcc tctcctgaag ccaaaggaaa tgagatcgga 120
attcctcggg gaattccaat tccacatttt caagaaataa ggaggcaaaa atgttcatat 180
atgaattgga attatttgtt ttcttattag gcctatcctg aagccaaagg aaatgagatc 240
ggaattcctc ggggaattcc aattccacat tttcaagaaa taaggaggca aaaatgttca 300
tatatgaatt ggaattattt gttttcttat taggcctatc ctgaagccaa aggaaatgag 360
atcggaattc ctcgggggta ccgagctcga att 393
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<210> 12815

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220142f03d1

<400> 12815

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ctaaatgtag tcgtanntga atcttccaac aaatttcctt ggctccggat aggcctaata 60
agaaaacaaa taattccaat tcatatatga acatttttgc ctccttattt cttgaaaatg 120
tggaattggg attccccgag gaattccgat ctcatttcct ttggcttcag gataggccta 180
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<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220142f05d1

 <400> 12818

 tatttttttt tattttttct ttttcttttt attctctttt ttcatttccc ctctctacgg 60
 tgtgtttttt tctaatactc ctctctcat atataactat acttcacaca ccacacaccc 120
 cccaatcacc ctctaccacc cccccccaca aacacaccgc cactaaaaca gccccacac 180
 acccaacccc cacaaaacat acccacccaa caaagaacat ttaaaaaacc cccccacccg 240
 cccccccccc ccaccacaaa aaccataggg aaccaacccc gctcccctga ttaaaacccc 300
 cccaaaatcc tataaatcac accacgacca aaagccaccc acccccccaa aaagtgtagg 360
 cgacaaaaac acaaaccccc cccccgatga aaacaccaaa ttcctttata acgaaaaaca 420
 tccccccccc cccccccc 438

<210> 12819
 <211> 416
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142f06a1

 <400> 12819

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 atcccccttt ttcttctctc ttctctcttt cgttcaccac ttcgacgcta agctaattatt 120
 tcattcggtt tcgtgaacgc gctaacggag aacgatttcg gttatagaga gagaaactag 180
 gagagataga gagcgattga tcatatatgg atcgcacgc ggtgcatttg gccttggcgg 240
 cgatcgctcg agcctccgtc gtggccgtgt cggcgatta catgcaccgc aagacgctcg 300
 cgcagctgct ggagttcgcg cgcacggacg agagggaggg tgacggcggc ggtggttccg 360
 acaccgaacc gcctacggng catttgaaga agcgccttgg cagctccagg aggcgt 416

<210> 12820
 <211> 333
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142f06d1

<400> 12820

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ggcaaaataa gtagtttcca ttaaatagcc aaaagcaaaa ttcccattgc ttctcccatc   60
atcagtctat gttatatgca tactgaagac agagatgaag tgggttgatac aaaaaggcat  120
aaatcataaa tatgaaaagc ttattgaatg attacaaatc agctcctcag acaatggagt  180
ggctatgtgt gactgcattg aaattaggta atcgatttcc tgtttatagt tttattaatt  240
taggtaggct aaaaaagaga ttataacact caagatgctg gtttgtctcg gacctaag  300
ctttggtgaa gctagcattg aaaggaacgc cag                                333

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<210> 12821

<211> 436

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220142f07a1

<400> 12821

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cagagacaga gagtgcttac gcagttttca ctcactgttt cagtagtagg gtttttcttt   60
atcccccttt ttcttctctc ttctctcttt cgttcaccac ttcgacgcta agctaatt  120
tcattcgttt tcgtgaacgc gctaacggag aacgatttcg gttatagaga gagaaactag  180
gagagataga gagcgattga tcatatatgg atacgcacgc ggtgcatttg gccttggcgg  240
cgatcgctcg agcctccgtc gtggccgtgt cggcgatta catgcaccgc aagacgctcg  300
cgcagctgct ggagttcgcg cgcacggctg agagggaggg tgacggcggc ggcggttccg  360
acaccgaacc gactacggcg catttgaaga agcgccttgg cagctccagg aagcgtggca  420
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<210> 12822

<211> 415

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220142f07d1

<400> 12822

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 caaaaaacgt tgttgtcact ctccatccag gtggaataat ataataataa gccatgagaa 180
 aacaaatacc acatcataat agtaccctga gttggactaa gatcctcaaa caatggaggg 240
 cacattgcat aatcctcttg ataatcagca gcatcagctc tgaccttatt gtagggacta 300
 ttaccattg ggctttcaag cctatcatct aaaggcctag ttaaccgtgg gcttctacta 360
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<210> 12823
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142f08a1
 <400> 12823

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 caaagaacct aaccaagtgc tggcaacatg gcaacgccct gggcgagaa gccttagatg 180
 gacactcctg aagggtgggg aggagaagga gactgggcaa atggggcatg cagaagaaag 240
 cgttgatacg accgacatag gtgggttacac acgtctgccc agaaacgctg ccaaattatg 300
 aacagaaaag caccttgctc gttggaacct aatttgacac tggccaggag aggcgctccc 360
 gcgctgctgg 370

<210> 12824
 <211> 513
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142f08d1
 <400> 12824

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 taccgaattc taataataat acaatgcaat ctttatacag ggacaggcaa caaaaacact 180
 ggcgagggta catcaaggca taacaagcca ggacccttta tttaaagaca ccattatttt 240

ctttttttca aaccttactt tagcaacaaa gtcttggtcc ttttcatgtg gtactatgat 300
taggcagaac cagatcttac gggcgggcat caacagcatg gttgctaaca tccttttcca 360
caaaatcctt gacatattgt tgtcttgag ggagatggc atttgacga ttgtatggag 420
tccaaactgg ctaccaaca aaaaaacgca aagccttaat gtagttgctc tcactagcc 480
gaaagcgatg ataaattccg gcaggtaaga tga 513

<210> 12825
<211> 421
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142f09a1

<400> 12825

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taacataaca tcatcaagca ggatcatcga tccaacctta gtattcaacc cagagagatt 120
tgtagtaata attactacaa caacttaaaa caatggcagg aggaggttat gtagattcgg 180
gaaatgcaaa gcaatttgaa gggaagggtca ctgcattcgt attgggttaca tgctttgtgg 240
cagccatggg aggccttactc ttcgggttatg atcttggaat aaccggagga gtgacttcca 300
tggaaccatt tctcatcaaa ttctgtcccgt gtgtctataa acaaatgcaa gatgatgtcg 360
gccatagaag ccaatattgc aaatctgaca acgagctcct tacactatctt acctcttctc 420
t 421

<210> 12826
<211> 462
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142f09d1

<400> 12826

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ggaaagcagc tcaacttttt agtacacagt ggaattagga ggaacattac ccaattcctg 120
agaggacca tgatggacca aaagcatatt caggctgtat gatcagcaat gcaatttccc 180
ctttcttcat gttcttcaca ggttggtcaa gtccatcaat tacttgctct tcattcaattt 240

tgaactcaaa tggctgttca tcaacgtagc cctttttaac gaaaacagtt tcatcttgcg 300
 acttgccaat cagtattact tgaactacag gtccatcatt ggggcgttca tatccctccc 360
 gttccttcaa agtcttcttg agaaccattc tatccttggt aatgtcagac acggtcttcc 420
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<210> 12827
 <211> 370
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142f10a1

<400> 12827

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 gggctgcctg cgccgatcc gtggagaagg ccagtacacg cctccccggg atccgggaag 180
 gcgtcggcga cgtccttgac agccgagcgc acgtaatctt ctaccctgc ttcgttaacg 240
 tggagactat tctcgaggcg gtctaggacg ctgtgttcga agccgagtga ctcacagacg 300
 acaacgaata cggtaagtg tgccgcaccc agatcaagga atgagctgca gtcctgctc 360
 ctgcactctg 370

<210> 12828
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142f10d1

<400> 12828

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 ggaaatcaac tcaacttagt agtacacatt ggaatttggg ggaacattag tcaatttctg 120
 agaggaccca aatggaccaa atgcttatcc aggctgtttg atcagcaatg caatctcccc 180
 tttttcatg ttcttcacag tttggtaag tccatcaatt acttgctctt tattaatttt 240
 gaacttaaat ggctgttcat caacgtagcc cttcttaacg aaaacagttc ctttttgcaa 300
 cttgccaatc aggttcactt gaactacagc tccatcattt ggctgttcat atccctcccc 360

ttccttcaaa gttttttaga gaacctttct atcct

395

<210> 12829
<211> 385
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142f11a1

<400> 12829

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aatggtggtc cgctccgtgg cgagcgacct cctcccgtcg gagctccggt cctacatcac 120
caacggcatc cacagcatgt tctggcgctt ctccctccgag ataaccctgg tcatcgacga 180
gttcgacggc ctccctcaaca accaaatcta cgaggccggcc gaaacctacc tcggcgccaa 240
aatctctccc aacacacgca gacttaaagt cagcaagccc gagacagaca caaccttcgc 300
cctcacaatg gagcgcaacg agtccttaac cgacgttttc agaagcatga aattaactgg 360
gttctcgtct gccgtcaggt cgagt 385

<210> 12830
<211> 244
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142f11d1

<400> 12830

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gggacttggt ataatttaat ttttaattcac cacaacaaca acaaaaacca tataaccaac 120
ccaaacactc ataaaacaaa ggacacttat aaaaatacca aaaaccacac aaacctaaac 180
aaaaaaaaaa caaccaccaa aaaaaaaaca aacaccaaac ccagaaccaa accccaagac 240
aaaaa 244

<210> 12831
<211> 523
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220142f12a1

002220" E T F E S O

<400> 12831
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aatggtggtc cgctccgtgg cgagcgacct cctcccgtcg gagctccggt cctacatcac 120
caacggcatc cacagcatgt tctggcgctt ctctccgag ataaccctgg tcatcgacga 180
gttcgacggc ctctcaaca accaaatcta cgaggccgcc gaaacctacc tcggcgccaa 240
aatctctccc aacacacgca gacttaaagt cagcaagccc gagacagaca caaccttcgc 300
cctcacaatg gagcgcaacg agtccttaac cgacgttttc agaagcatga aatttacctg 360
ggttctcgtc tgccgtcagg tcgagtcag aggttncac aacctcgcg acctcaacgc 420
caccatgaaa tccgaggttc gtcctctga actcactttt aacaagaagc ataaagacat 480
ggtgctccaa acctatcttn cctatatnct caacgaagcc cag 523

<210> 12832
<211> 649
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142f12d1

<400> 12832
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gctggcattc tgtttaggct aacattacaa tttgaatttc agctaaagca aactgcgaaa 120
cgctgaagat ttgaagcaaa ttaaaaaaaaa taaaagagaa gaaatcatcg ttgttgtgga 180
cattgtgttt gttttctaag aagaatggaa actgtgtgtt taaaatctgg gatggttccc 240
acgatctcta ttagtgggtc gctggatgca cgtgccaatc cttctcaggt gagcacggtg 300
gggcgcgcgc cgggggataa accgcgcgag aggtcgggtg tttcgaggtt ttccttttgg 360
tacccttttg aatctctctg gcctcggggg aacaacagca ggtacaaagg gctggccctc 420
gacgacgcgc ttttggcgga caacaacgcc gaagcgaagg ccgttagaga tgacggccag 480
ggtgacggaa cggaaaggca gaccggaac tgggttttga agattctgca tgtgaagttc 540
gcgtgggaag ggaaacagcg caatgaagag gatgggtacg ttcattgatca aactcaaacc 600
aatttcgacg aggaagaggt gtgtgaatgt gatgcttgcg gtgttgatg 649

<210> 12833
 <211> 523
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220142g01a1

 <400> 12833

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 gttgcatcgc caggtatgta cccggtgcat cccacgggtc caccgtcgac aaaataatgc 120
 ttaggtttcg tccaatcgct cccaaacccg ccgtcgcggc caccgcttcc gacggctctt 180
 cgtccgagag cagtgcgct tttctcaaaa acggaaccac taaaagaaag tacgtaagag 240
 ataacaacta caccagcaaa cgaagaatcc gccggagaaa gaacacttcc tcgccggaga 300
 aaaagcagaa gccggtggtg actcttccgt tgcttccgga aactcccgat cggaaggatt 360
 ctcgggcaaa ggatctaact ccatacaccag ctaaaccagt acgaaacaac atcaacaaca 420
 acaacatgag caagaacttg aatattatta acaagaacgt gccggtgtgg gtgagttttg 480
 agaatcgaag ccttacgatg atgggagggg ggtgttcgtg tgt 523

<210> 12834
 <211> 421
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220142g01d1

 <400> 12834

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 gaagattcag tgtgatgtgt gtgagaaagc ccctgcaacc gtgatttggt gcgcagatga 120
 ggcagctttg tgtgccaat gtgacgttga agttcatgct gcaaacaagc ttgcaagcaa 180
 gcaccagagg cttctccttc aatgtctatc aaacaagctt cccagatgtg acatatgcca 240
 agataagcca gctttcatat tttgtgttga ggacagagca ctcttctgta aagactgtga 300
 tgagccaatt catttagcca gtagcctttc tgcaaaccac cagcgcttcc tcgctactgg 360
 tatcaggggtg gctctgggtt ctaattgcac caaaggccat gaaaaaggta acatggaacc 420
 a 421

<210> 12835
 <211> 571
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142g02a1

<400> 12835

gaaaaattta gtaactaccg ataccatata ataataagaa tagtattatt aaaagagaaa 60
 gggaagggaa ggtaacacgc tatggcggcg gaatcgggtg gtacgcgcgac aaactttgat 120
 cttcccgagg aggtggtgca agtgctaccg tccgatccct tccagcagct cgatgtggct 180
 cgcaagatca cttccattgc tctatcgaca cgtgtcaaca ccctcgaatc agagctgtcc 240
 tcgcttcgcg ccagatcgc cgacaaagac aacctcatcg ccgaccttca atctcagctc 300
 gactccctcg acgcttccct ctcccaaadc gccgacaaac tctccaaac cgaacaagat 360
 aaggagagct tgctccagga gaatgcttcg ctttccaaca ccgtcaaaaa gctcaatcga 420
 gatgtctcca agttggaagt tttcagaaag acgcttatgc aatcacttca ggaggaggat 480
 gataactctg gagcagcttc agacattggt gctaaaatac agagtcaagc aagtttgact 540
 tccacgtcgc agactggaga taatgatgtt t 571

<210> 12836
 <211> 479
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142g02d1

<400> 12836

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 tttggaaaga atcttttaag cacaatgtca atggagattg cgattaatca atccctcaaa 180
 tatagtgtac agatccttgt tttcaggccc aaaaatttta tcagctttcc gtagcgtttc 240
 ctcttttgtt tgtttatggg aattcaattc ttttaacatta gccagaatg caccaaattg 300
 ctcataagac aaacggttcc tgacttggcg aaagaactct ttcccatcca cccgtgttcg 360
 tccagattgt gatcctgttc ctgcatcaga gcttgatatt gaaccatgag ttaaggacat 420
 tgaggaaaac attgaagacc tgtcatcata catgcctttt gtggttgcaa aggaaattg 479

<210> 12837
 <211> 455
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220142g03a1

 <400> 12837

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 gtcgggtcgg aatagcgatg ataacgaacc ggggtgcggtt atatgtaggg agagtgttca 120
 cacggtgagg gagttccgga agctgtatgg gcttttgcgt ttgggaagta ggaggaaaga 180
 ggagtcctat tcggggccca tagagaaaga ggctccacgt atctagactc gggtcggata 240
 aaagtaatcg gggtttcttt ccttttttta ttttctacaa aaaaatgtat agttgcttgc 300
 caagttgccc gagttttttt ttttgcagtt agaaattata ttgttgatc tacaaagaaa 360
 aataatggta ggtcggtaag gtcgaagcaa ctacacctca cttttttgtt tagtccgttg 420
 ataagaacac atatcaaag catcacttat tctttt 455

<210> 12838
 <211> 489
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220142g03d1

 <400> 12838

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 ggcgcccttc tttttttttt tttttttata aaaattttta tgatgccttt gacatgattt 120
 ctaaaaaacg gactacacaa aaaagctagg tgtcaaggct tgggtgcttac aaagccacca 180
 ctatatttat attgtatgat caacaaaaaa aagtttgact gtagaggata aaatgggctt 240
 tcatcgatcg gcatatattc attccgtagc ttaagataaa aaccggaaga caaatctgtt 300
 ttttcttagg cgaacttggc tgatacacac ttagctgctt ctgcattggg ccaataatct 360
 aacacaatgt tctttgtagg atcaaaattg gataccccg tcatatttcg tgactggcct 420
 tccgtgtgaa cactatggat tgctttcatg cgcgtccgga tatttatcat cattattcct 480

<210> 12839
 <211> 515
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142g04a1

<400> 12839

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 caaagatgcc aagttccgac atgccttcca aaactctaaa actctctctc tccgacaaca 120
 agtccttacc ctctttgcaa ctacccttcc gcaccacaga tatctctcac gccgcacctt 180
 ctgtttgcgc cacttacgac tactatctcc gtcttcctca actcagaaag ctttggaaact 240
 cctcagattt tcctaattgg aacaacgaac caatcttaaa acctatcttg caagctctcg 300
 aaatcacctt ccgctttctc tccattgttc tctccgatcc aagaccttac tccaaccaca 360
 gagaatggac tcgcaggata gagtctctta tcacacatca aattgaaatc attgccatac 420
 tatgtgaaga tgaggaacat aattccgaca cactgtggcac tgcaccaacc gctgatctca 480
 gcaggaacaa tagcagcgag agcagaagct acagc 515

<210> 12840
 <211> 107
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142g04d1

<400> 12840

aaacgaaaaa aaatttttaa tttttattaa aaaatttatc cggggacccc caaagataaa 60
 tgccaagaaa aacaaattgg taccggtt ttgaccctta accttgg 107

<210> 12841
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142g05a1

<400> 12841

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 ggtagggggg attggcaagt attcgaggtc gcagatgtac cacaagaggg gcatctgggc 120
 catcaaggcc aaaaacggtg gcgttttggc ccgccacgat cccaagccca agcccgaggc 180
 cccggcccag aagccgcccc agttctaccc cgcggaacgat gttaagaagc ccctcgtcaa 240
 caagcacaag cccaaacccg cgaaactcag ggctagcatt actccaggga ctgtgttgat 300
 cctgcttgct gggaggttca agggaaagag ggtttgttta cctgaagcag ctcccatctg 360
 gattgcttct tgtaactggt ccctttaaga tcaatggngt tcctctcaga aggggtgaacc 420
 aatcgatatgt cattggtaca tccacaaagg tggacatc 458

<210> 12842
 <211> 850
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142g05d1
 <400> 12842

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 gagagaagag gtaaaaaaat aagaatatac aaagaaagaa aaaaacaaaa aaaacaaatg 120
 accaagagcg gaantgaaaa ccaacanana attaanngga aaaacaacaa aggaggaaaa 180
 naaaagaaaa aaaaaaanaa gaaaaaaaaa agaaaatttg agaaaaagaa aaaaagaaaa 240
 aaaaaaaagg gggggaaaaa aaaaaaaaaa aaaaagagaa aaaaaaaaga aaaaaaaaaa 300
 agaaaagagg gaaaaaaaaa aaaaaaaaaa aggagaaaaa aaaaaaaaaa aagaaaaata 360
 gaaaaaaaaag gaaaaaaagg aaaaagaaaa aaagacaaaa gaagaggaaa caaaaagaaa 420
 gagaaataga aagaaaaata cacaacaaaa aaaaaaaaaa gggaaaaaaa ataagaaaaa 480
 aaaaaaaaaa aagaaacgaa aaaaaaaata aaaaaatcaa aaaaaaagga ggtaaataaa 540
 aaaaaaaaaa aaaggaataa aacaaaaaag aaagagaaaa aaaaaaggaa aaagaagaaa 600
 aaaaattaaa ggaaagaaaa aaaaagagga aataaaaaaa gaaggagaaa ggagaaaaaa 660
 aataaacaaa tagaaaaaag aaaaaaacac gggggaaaaa aaaccagaag gaaaaaatga 720
 aaagactaac aaacaaaaaa aaaaaaaaaa aaaaaataac gaaaaaaaac acaaagaaga 780

aaggaacaag tgaacaaaag aagaggaaaa caacaataga aaacaaaaaa gaaaaaagaa 840
gaagaagtgg 850

<210> 12843
<211> 365
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142g06a1

<400> 12843

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taaataaata aatataaaca ccatgagcgt tcctccgccg tctacggcgg cgatgtggac 120
gccgttcacg gcagcgcagt ggcacgagct ggagcaccag gccctcatct tcaagtacct 180
caaggcgggt ctctcggttc cccctgacct ccttctcccc attcgcaaga gcctccaatt 240
gatatcgtct caccatcga tggggtatta tgggaagaag atagaccctg aaccgggtcg 300
gtgcatgaga accgatggga ataagtgaag gtgttcgagg gatgcacacc ctgactccaa 360
gtact 365

<210> 12844
<211> 148
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142g06d1

<400> 12844

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aaaaaaataa gtcctgttga agaaacccaa gttcattcta ttttgccctg aaaactgggt 120
ctttgtcacg gggatgggtg ggcccttc 148

<210> 12845
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220142g07a1

<400> 12845

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 tatgcagtaa agcctcagaa gggatgatgcc ttgttgttct tcagtctcca tctggatgca 120
 agtacagata ctaagagctt gcatggaagc tgtccagtca ttgagggcga gaagtgggtct 180
 gcaaccaagt ggattcacgt gagtgacttt gaaaaacat tcaagcaagt ggataatgga 240
 gagtgtgttg atgagaatga gaattgcctt aggtgggcta aagtaggtga atgtgacaag 300
 aatccactnt atatggttgg tggggaagga gtaaaaanga aagctgtatg aagagttgca 360
 atgtctgcac ttcttaagga gtctattacc ttttgtttgc tctgaaatgc atgtagagcc 420
 atacatacat tgtcaaatat attgtatata aca 453

<210> 12846
 <211> 350
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142g07d1
 <400> 12846

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 cacgtgggaa tcacgttgta caaagtcaaa agaatagcct aggaaaagcc caaacttattc 120
 ttgattcaaa aaccaatttt ttgccatccc aacttctata acaagtggaa taaaacgagc 180
 tactatgatt tacaatttta caaatcatac cgaccctttc aaagttgaca tactttaact 240
 tagaccccat gggcagaagc aatattaaaa ttataattgt agctgccctg gacctctctt 300
 tgatgatgat cttgaaggag gaacattaac ttaaataaac tgagggtttt 350

<210> 12847
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142g08a1
 <400> 12847

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 ctagatctcg ttcttccttg atctacgtta cgcttttagt gaccggatct gtatggatct 120
 gaaccagatc tacacgccga tgggtggttt ggctgggtct ttcatagatc tgatgcatgg 180

aggctcagat ctactgtaca gagatactgt agataatcga tgagaagaac gcagatccag 240
 ccgcttccgc ttgttcgata gctacagacg cttgtatcgg attattcatg attgattcat 300
 aagcagcatg tcttcctccg gctatagttg ttgcagatct cggatgttgt aaaattagtg 360
 tatgatgtga agctatgggc tgaaaat 387

<210> 12848
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142g08d1

<400> 12848
 aaagggatcc ggaaaaaaaa agggttaaccg caaaaaagtc ccatggggaa agactaaaaa 60
 aattgggcaa aaaaaataatt ttggtggtaa aaaaaataat atttttcggg gtaaaggggg 120
 ggaaaacaat attttaatta tttcagggga ttaaatccaa cccatatttt ttttgggtcca 180
 ctaaaatccc cctgggaaaa tttctttttt ttcttgtaaa gggcccgaat tttttcccc 240
 ttaaaaatgg gggaggggga agaaaaata aaattttcct aaatccccgt aattttttta 300
 aaaatgcttt gcccaacaca atggatttgg caccceaaaa gctgtgcggg gggtccatt 360
 tgatatttca tttatcggtt ggaggataaa aaggtaatga cctatttttg tat 413

<210> 12849
 <211> 481
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142g09a1

<400> 12849
 tctggcctgc ttcacataat catgcttctg cttacttttg acagactccg tatcgcgggga 60
 ggatgctgaa taggccaact attagcatga gattcatgcc tgacaaaggg tctcctgaat 120
 atgatgcgtt agctaagaag tctgggaggg ccaacttgct gaccttgact ggcttaaatg 180
 agacctcat tgacctaac atgataatga tccaaagctg gcaaacattt gttgagagct 240
 acctgcgcc tacagatggc ggtgactact gtacttctga tgccgggcca ttagaggcct 300
 ttaagaggtt tggaaagatt ctagcataga ttgacatgaa gctgatatag aagaacaata 360

atgagacatt gagaaccgc tatgggcccgt ctaaatgcc ctacactttg ctctatcctt 420
 ctagtgagga gggattgact ttcagaggaa ttcccaacat tatctctatc taatggctct 480
 a 481

<210> 12850
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142g09d1

<400> 12850

taaacggatg ctattgacat ctcccaaaat attcccggta caccggcgcg tgtcggcgcg 60
 cgcccttttt tttttttttt ttgttaaaaa ttttaaacct gcatgattgc atttattatt 120
 tgggggttcca ttacacaaac atgggtttatt aatgacaaat acaagtacat tcagccactc 180
 caaatacata acttaaacat acacaactga tgaaggaatc agattccttc tatttcacat 240
 ttattttaag ccagggacag tacttcagca accatagagc ccttaaatag agatactgtt 300
 gggaattcct ttgaaagtca atccctcctc acttgaagga tagagcaaag tgtaaggcat 360
 ttttaaccgc ccaatacggc ttctcaaagg ctcaatattg gacttctcta taagcttctt 420
 ttcaatcttt tcaagattct tttcaaacct tttaaaaggc tt 462

<210> 12851
 <211> 510
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142g10a1

<400> 12851

cctttgttca ctcttcttct cttgcgggta gggtttttagc gcagcttctt ctagatttaa 60
 ggaagatggg taaggaaaag gttcacatca gtattgtggc cattggccat gtcgactctg 120
 ggaaatccac taccactggc cacctgattt acaagcttgg aggcattgac aagcgtgtta 180
 ttgagaggtt tgagaaggaa gctgctgaga tgaacaagag gtctttcaag tatgcctggg 240
 tgctggacaa acttaaggct gagcgtgaaa gaggaatcac cattgatatt gcttgtggga 300

gtttggaaca acaaagtatt attgcacagt tattgatgcg cctgacatag ggatttcatt 360
 aagaatatga ttactgggac atcccaagct gactgtgctg ttcttatcat tgattcgacc 420
 actngtgggt ttgaagcttg tatttccagg atggacagac tcgtgaacat gctctgcttt 480
 catcaccctt ggtgtgaaca gatgatttgc 510

<210> 12852
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142g10d1

<400> 12852

ctaaactcat tgttantgaa atctaccag aaatatttcc cgggacgacg cgcgccgtn 60
 gtcggcggca cgccctatatt tttttttttt tttctctact ttttttaaatt tttttatttt 120
 gcaagtctaa gcggggggttc tctattttaa attttaactc aaaaccatgg gaattaaaat 180
 atcgggagat taacattttt tctcttaaag gatccatact ttatattatt cacttcccc 240
 ggctcatat tttcttttaa ccttctacgt tactactatt tctataaaat taccatact 300
 ttaaactt 308

<210> 12853
 <211> 346
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142g11a1

<400> 12853

ccttgctttc caggctgcaa ttaggagatg gatgacacca atgaaaaaga cacaggcctc 60
 tgctcatgat gcttctgccg gcagctggaa gcctaccaag aatgacacta tggagaatcg 120
 ggttcctgga tttggcacta caatgaacat tctctatggg gatggtgttt gaggacaagg 180
 cgatgtggac tcaatgaaca atatcgtttc ccattacctg tattatcttg accttctagg 240
 agacggccga gaacaggctg ggcccatga catgcttaca tgcgctgagc aggttccttt 300
 caacccatct tgcgaacctg cttcatcatc ctaagattat tatatt 346

<210> 12854
 <211> 575
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220142g11d1

<400> 12854

tccttttttt tttttttttt ttaagaactt taactttaca tgcattaatt taatcagtat 60
 gcaaatggca gcaaaataac tgtatagaaa acagaaaaaa ccatttatac tatacagaat 120
 tactatgtaa actacagaat aactatatat atacaaagaa taattatgta tactgaataa 180
 caatgtacta aataactgaa tatacgctga ataacttaat tatactgaat aatcgcgagca 240
 gaaatatcaa aataattgca gcacaaggga attaaaacaa acaaacatac atactgaata 300
 acttgatacc aagaaaaaat agcattgtat gcttgtgtaa agagccgaag ttatcttcac 360
 cttaaagaat tgtagaagcc taaccagatt ctttgtaaatt ccacgatatt tcttcaaaaa 420
 taccttgaca accacaatga tattgtcata gcagaagtca tatagcgtct tcacattgat 480
 attccaatca tcgccagaag atttacaatg ttaatgacct atttctgcat tacaaatgtt 540
 gtcgcccga tctgaacttc ttacaagtng ataata 575

<210> 12855
 <211> 531
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220142g12a1

<400> 12855

ctcgagccgc tcgagccgca ggttcaaaga agtgcagatg aaaaaacagt gttgataaca 60
 agctacgaag gcaatcacia ccaccctctg ccgccagccg acaccgccat ggcaaatact 120
 acatcagcag ctgcagccat gctgctatca ggttcagcag caagcaagga atcgctaaca 180
 aactctgcag gatattactc ttctacaatt ccctatgctt caatggcaac cctatcagct 240
 tcagctccat tcccaaccat cactctcgac ttgacccaaa accccaacaa cgccgccatg 300
 cagctgcacc gagtaccacc aggccatggc ggcgccacgt tccctctgcc actgcatgcy 360
 gcagcatctg gtgggtcccca ccttctaggg cacccttgt tcttccaaca gaagctgctt 420

ccaccgcaag cattaatgcc ccttcttcaa cgacaacctt cgtcgatggg cgaaacgggtg 480
 agtgcagcca ttgcttctga tccgaactca ctgagctttg cagcagcatc t 531

<210> 12856
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220142g12d1

<400> 12856

acacangtag gcggccgtcc ttcttttggt tttttttttt ttatttttta ttttttttac 60
 tatcttgcac caacttggag actggtctct tttaatgcac gtgagactaa actgttttag 120
 ttgactatat attcctggac gctcctaaaa ttaccaagtt acctttgctt aatagaagga 180
 atcaccttca caaaatggag aactgttatg aaagaaacct gtctggctac gcacacgttg 240
 ctgccactgc ttaacctctt gccactacaa tacaccggat tccgaatgac taacttgata 300
 cctcaacact acgactgcac gatccaatgc atgccttatg cacagtagaa agagcctagt 360
 tgccgactgc accatccctg gtagaagata ccacaagctc caaagggcgc tgcacagcta 420
 gcaaatcaca cggaagaaa 439

<210> 12857
 <211> 508
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142h01a1

<400> 12857

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 ttcattctac tcacaaatca caatgctctt cctttcttcc ttaataataa taccataata 120
 atctgttacg ttacggggcc caaatgtctg ttacggagct caaggagcgt cactctgctg 180
 ccaccgacac cgtcaacaat ctgagacacc gtttaaagca gaagcgcctt tcgttgctcg 240
 acacagatat ttctgggtat gcaaggtctc agggtagaac gcctgtgacc tttggaccta 300
 cggatctggg ttgctgtaga accttgacgg gtcacacggg aaaggtgtat tcattggatt 360
 ggacttctga aaaaagtcag attgttagtg catctcaaga tgggcgatta atagtgtgga 420

atgctctaac taggcagaaa attcatgcc aaaagctacc ttgtgcatgg gtcacgacct 480
gtgctttttt accaactggg caagtctg 508

<210> 12858
<211> 482
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142h01d1

<400> 12858

cccataatga gtggttgcca actgttcagt cagagcctga tgtgatctca atgtcgttca 60
ttccaattac gtgtgttttg aatggagtgc cagggagtgg attcttgagc catgccataa 120
acctttatta gcgatataaa ccaccgatcg tagagctcca ccaattcttg gaattccagc 180
tgccaaggca gtgggcacct gtattcagt acctttctct tggccccaa ctaaagcacc 240
ggagttctgc atctgtacag tttagcttga tgggccccaa gctttatgtt aactccacac 300
aggttgatgt aagtaagagg ccagtgactg gtctacgtct ttatcttgaa ggtacgaaaa 360
gcaatcgggt ggccatgcat atgcaacagc tttcatgact tccaaaagtc ttccagcatg 420
gagatgatcc aaatgaaaac ttatggcgga agtcttatga taggagattc tttgagaagg 480
tt 482

<210> 12859
<211> 622
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142h02a1

<400> 12859

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ccttattcta catgaatata aattgtgaga tcagatactc tttgataaca tcctaagtac 120
ttatagtacg ttgttcccc cattgcacat atttcttaac catatgattt tcaagtgatg 180
caatacatca tgttatttat tatatgacag ttatttttac aatgagaagt ttaactttga 240
tctgtttata ggtggcaact gcggtgcgga tccgtagttc tctttctttt gcaaccacac 300
catttttcaa tgagcatgca tttattgatg tgcaagtacc tattataact agcacagact 360

ctgaagggtt tagcaacatg ttgaagggtta acaccctgga acagaaagca gagaaggaga 420
aactagacac aatttatgag actgaagggtg ttagccttga acatgtgaag gcagctgcaa 480
aggagaaaag caacattatt gagcatttga aaagaactga gagcaatagg gaagcactgg 540
ctgctgcagt ataggatctg aggacaacga atgaactcgc attgaaatgg aagcatgaga 600
aaagagacag taggagctct tt 622

<210> 12860
<211> 481
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142h02d1

<400> 12860

caattatacg tttccatata tacatcaggc acacaagtaa tccattcata tgttaaattg 60
ttacacaagc atacaacagt gtcattgattt cctcaggtcc acaaattattg gaagtttgaa 120
tgccaatagc ctgcaatatg caacttgaat cttagcccaa aacttttact tagttattgg 180
ctttgccata gcttcttggg aaagggataa cgtccctaac attgccaagg ccagttgcga 240
agaggacat caggtcaaac cttagagtga acccagagtt cttcactgtt ccgtttcgac 300
gaagatctag gtaccattca tactttctctc gcggaagcc taactcatca atcctggagc 360
ttatcatgtt aagacgttcc tcgttttggc taccagatat tattgttcca agctttggga 420
caaccaagtc aaacgcagct acagttccat catgattctg gcgagcataa aatggcttag 480
c 481

<210> 12861
<211> 615
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220142h03a1

<400> 12861

cacctttcct tttttccac agaaaaaac accaccttc tttttccgac taaaggttcg 60
ccggaaaatg cctctatcct cctcttctc ctccgccgta gactccgccg tctccggcga 120
gatcatgctc tttggcggtta gagtcgtggt ggactccatg cggaagagtg tgagtatgaa 180

caacctctcg cagtacgagc ttcctcgga cgctgccaac gccaaagacg acgccgcagg 240
 atacgcctcc gccgatgatg cagctccgat caactccgac aagaaccgcg accgcaagcg 300
 agggattcca tggactgagg aagagcacia gctattcttg gtgggggttg agaaagtggg 360
 gaaaggtgat tggagaggga tctcaaggaa ctatgtcaaa acgaggacgc caacacaggt 420
 tgctagccat gtcagaagt actttctccg ccgcaccaac cttaatcgcc gtcgccggag 480
 atccagcctc tttgacatca ccaccgactc ggtctctaca acccctatgg aggaaggagt 540
 acagatccag catcaagata tgtgtctctc tttcatcagt gtaccctgta cccctgaagg 600
 aacaacatga atgga 615

<210> 12862
 <211> 501
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142h03d1
 <400> 12862

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 atagtaacta caaacataaa agtggccaat aaacaataaa caaaaacatg acaggacctt 120
 tccatggtct gtacaaggaa caaaaggatc aaattggtct catgacttat taccttgcct 180
 tcagaaggat ctaattcatc atcttttctt ttaacatggt ttatatttct cccgccaaaa 240
 agagaaagta gattagtgat aaacatcttt gtgaatccaa agtagctata gataatgggc 300
 caaagatata tgtttatctt tttcaagcag cacttatgat gctatcttga ttgttgaagt 360
 atggcattgc atgtaaagct gcatgtattg atgatgatgt ttgtcttggga ctggatgaca 420
 aagataaccc cagagacagt gttggtgtga tcaaaggaac ttaaacttgc agtgatataa 480
 gacactgtgg agcctctatg a 501

<210> 12863
 <211> 595
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142h04a1
 <400> 12863

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 ccgaaaaatg cctctatcct cctcttctc ctccgcgta gactccgccg tctccggcga 120
 gatcatgctc tttggcgta gagtcgtggt ggactccatg cggaagagtg tgagtatgaa 180
 caacctctcg cagtacgagc ttcctcgca cgctgccaac gccaaagacg acgccgcagg 240
 atacgcctcc gccgatgatg cagctccgat caactccgac aagaaccgag accgcaagcg 300
 agggattcca tggactgagg aagagcacia gctattcttg gtgggggttg agaaagtggg 360
 gaaagggtgat tggagaggga tctcaaggaa ctatgtcaaa acgaggacgc caacacaggt 420
 tgctagccat gtcagaagt actttctccg ccgcaccaac cttaatcgcc gtcgccggag 480
 atccagcctc tttgacatca ccaccgactc ggtctctaca acccctatgg aggaaggagt 540
 acagatccag catcaggata tgtgtctctc tttcatcagt gtaccctgta ccct 595

<210> 12864
 <211> 285
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142h05a1
 <400> 12864

accaattaca aattacactc tttgcctcgc accttcaact taaccttttc tactcataat 60
 cttaacaact tgctagaaga agataaagaa agagaaaaag tgtgtgtgtg tgagagagag 120
 caatggctgg ctctggggca cgccgttctc tgattgttct ggctatcatt tccttcggat 180
 gtttatttgc aatttccatt gctaaggagg aagccacaca attggggacg gtcacggga 240
 ttgatcttgg aacgacctat tcatgtgttg ggtgtttaca agaac 285

<210> 12865
 <211> 102
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142h06a1
 <400> 12865

gttgagggtc atagtccgtg tgacaatttg ttattctttg catttatctt tggagggtctc 60
 cgataatat ttttaataaa aattagataa ttatttctga tt 102

<210> 12866
 <211> 373
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142h06d1

<400> 12866

gagcaattaa tttttttttt aattatttta accgggggtg ggggtggtaaa ctttatgaat 60
 ttaatctgat ggcatgaaat gaaacaacca aaatgaaaac ttttgtttcc aaaactatga 120
 tctcgaaaaa acaagggtccc aaattgggga aaaaatcaat accaatttct tggatccaaa 180
 atatcaaaag gacaaggga tccggcatgat catcccagga aattggagaa actcagcaag 240
 ccaccttcac cagatccgcc tttctttcca aacaagacaa gctgcatctt ggcataacct 300
 tccagcacac cggaatcagc aacagatgca aatgtttgca ccaacacctt tgaagaaaga 360
 ctttggaacc tca 373

<210> 12867
 <211> 349
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142h07a1

<400> 12867

aagacaatta aatctattac atataatagg aatataaaca atccaagaca ccagagtgat 60
 aagttgtggc aaactgatga aggaaacgga aaacaaggta tatctaacca catacgagaa 120
 acaacagatt gaaagaaatc gagaaatgtc acccataaac tgaatagagg tgaagaagc 180
 acaatccaag acataaaaaca agaataaaat acagcctgaa acaaaatctg atgaaaacag 240
 agctgagcag gcgcactgat gcctaacatc aactgcccga gggactccag ttctagtgc 300
 accctacat tgtgccttgg gcaacttgcaa ccttatatat ggctgaaat 349

<210> 12868
 <211> 198
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142h07d1

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 ggccactcaa aagatcatta gcaatgtatt gcagtttagtg ttccccattc tatacatcaa 240
 ccatagagaa ctttgccctgc tttgtcaatc atcattggct gagaatgaga gaaattatta 300
 catgatctag agctatgcga tcccgatgaa tatataggtg acatatagcc acattcttca 360
 atttatgaaa aagagttaat agcatatcag gtaaagattg gccgagacca catagacca 420
 tataacaatt tctcctagga tggaccctgt tcccagttag ttacactgaa gccagaacga 480
 aattttgtta gggatgaaac tatgaagaca cattggc 517

<210> 12871
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220142h09a1
 <400> 12871

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 ccataactcg aagatcttgg tgaggaagcc catggcaaata cagcagaaca tagtggtggc 120
 agatggcaca cggcagaaga acatgccac aggaatagta ctccataact gcgagatcat 180
 gccggaccct accctcttgg cagaccgctt gagcgtgaag acttacttgt ccaggccatg 240
 ggaggcattc tcaagggcag tgttcacga gaatgttatc ggtgacttga ttcagccaga 300
 tggttatatt gcatggagcc caatcgaacc aaacacacag gattgctact tcgctgagtt 360
 tggcaacact ggaccaggtt ccgttgctca tgcaagagcc atgtttggaa aggtcttatt 420
 agctagcgga ggctgtacaa tacactgc 448

<210> 12872
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220142h10a1
 <400> 12872

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 ttgttcttta tatgtgcatt tgttgctgca ttgcatggt cttgggggtcc actagggtgg 120

ttggtgccta gtgaaatatg ccctcttgag gttegttcag caggtaagc catcaatggt 180
 gccgtaaaca tgctgttcac ttttgogatt gctcaagttt tcttagtcat gctttgccac 240
 ttgaagtttg gccttttctt cttctttgct gcatttgtac tcatcatgac catcttcatt 300
 gccatgttgt tgctgagac aaagaacatc ccattgaag aaatgcatac agtctggaga 360
 tcacattggt tttggtcaaa gattgttcca catgctgatg atgatcgcaa gcctgaggct 420
 tgccaaagtt gaataagaat gccaatgata tataaggagt g 461

<210> 12873
 <211> 450
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142h11a1

<400> 12873

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 tttcatctcc aaagggatca acagggtcga ggagaaatgg ggctgacatt cacgaagctt 120
 ttcagccggc ttttcgcaa gaaggaaatg cgaattctga tggttggtct tgatgctgct 180
 ggtaagacca ctatcctcta caagctcaag ctcgagaga tcgttactac aattcctacc 240
 attgggttca atgttgagac tgtggaatac aagaacatta gcttcaactgt ttgggatggt 300
 ggtggccagg acaagattcg tcccttgtgg aggcactact tccagaacac tcagggtctt 360
 atttttgttg tagacagcaa tgataggga agagtgtctg aggccagaga tgagttacat 420
 aggatgttga atgaggatga actgagagat 450

<210> 12874
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220142h11d1

<400> 12874

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 gatgttccta aaattacaaa tctacttttg cttattagaa ggaatcatct tcagaaaatt 180

gggaagtgtt attgaagaaa catgtctgtc tacgcacaag tagcttcaac tgctaaactt 240
 tttgccactc ctctacaagg gtttccgaat gtctcacttg atactccaac actacaactg 300
 cttgatccaa tgcaggcctt ttgcacaata gaaagagcct tgttgctgct gcaacgtccc 360
 tggtagaagt taccacaggg tccaaggggt gttccatagc tagcaaattt aatggaagag 420
 atgacctggg tatcaagagg gcaagtgagt gatagcacag gacctacttt tcttcctgat 480
 tctggatctg agtt 494

<210> 12875
 <211> 521
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142h12a1
 <400> 12875

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 acggcctcgc cttcgcgcg c aacgagctcc agctggagga tgccatctac ttcaaccacg 120
 agtttctcca gagcatggga gtttccatag caaaacacag gctggaaatc atcaagctcg 180
 caaagaaaga agttggtggc ggtggggcgg tgatgatgat gaggagcagc agcagcatca 240
 agttttctat caagaagtgc ctgaggaagt gcttcagcaa gctcgtttcg cgtgaagatc 300
 accacgaagc gatgatggcg acaacagcga tgatggcgac cgagccgaat tggtagcaag 360
 ggaagtggag gagggcaagg cacaatggga acaatgagga tctccagga gataataata 420
 ataataataa taataacaat aaggaggattc aaagaagtag aactattgca ttatcagggc 480
 cctttggatg ggaatggaag aataattcac gagaagatga t 521

<210> 12876
 <211> 484
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220142h12d1
 <400> 12876

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 tagagcccag cctctcaagc ccaagcccaa gcccaagccc aagcccgttc ataaaaatcct 120

cctgcagcaa gcaccagta ccagccctc tgcgtctcat ccctctccgt ctacgcctcc 180
 agcatccaac aggaccctca ccaactggtt cagacagcac tctccctctc cctgaaccgc 240
 acccaagcca ccaaaacctt cgtggctaac tgcaacaaat tcagaggcct gaaaccaga 300
 gagcacgctg cactcaagga ctgcgccgag gaaatcagcg acagcggtga ccgcctcagc 360
 cggtcgctga aggagctcaa gttatgtaag gctaaagggtg aggacttcac gtggcacatt 420
 agcaacgtgg agacatgggt cagttctgct ttgaccgatg agagcacttg cggcgatgga 480
 ttct 484

<210> 12877
 <211> 569
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143a01a1
 <400> 12877

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 tgaagatggt ggagaaagtt gaagaattta acacggagag gatgatggag gaatttgaga 180
 gggtgacaaa ggatgctgag aggattcaaa gggaaaccct gaagaggatt ttggaagata 240
 atgcttctgc tgagtacttg ctgaatttgg gcttgaatgg gaggacggat cctgagagtt 300
 tcaaggcctt tgttccactt gttactcata aagatttggg gccttatatc aatagaataa 360
 ttgatggtga tttttcttct gttctcactg gcaaacccat cacaaccatg tctttgagtt 420
 ctggcactac tcaaggaaag ccaatatatg taccatggaa tgatgaattg tttgacacca 480
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 gcaaggcncc tgggcttata tacagcagc 569

<210> 12878
 <211> 583
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143a01d1
 <400> 12878

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tttcttcttt gcccttcttg caccocgggac tgaaatcttg tacagtcttc aacagaggaa 180
cactcattcg ccagtgttta aatggaaagc ggaatttttc tctatcagaa aagcgattta 240
attgcaagtt ttcaaagaaa gacagattct ttatccctag aagtagtagt tcttctaact 300
ctagtggag tacggatgaa ccctctaatt agacagagaa gacaccattt ggatatacaa 360
ggaaagatgt cctattaatt ggacttggag ttactttact tggcattggc ttaaaaagt 420
gactggagtt tgttggagtt gactcactgc aagcaggaaa tgtagttcag ctagtgctgg 480
ttttgggcct tacagttggg tggatctcaa catatatctt cagagtttca aacaaggaaa 540
tgacatatgc acagcaacta cgtgattatg aaagcaaagt gat 583

<210> 12879
<211> 578
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220143a02a1
<400> 12879

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tgaagatggt ggagaaaagt gaagaattta acacggagag gatgatggag gaatttgaga 180
gggtgacaaa ggatgctgag aggattcaaa gggaaaccct gaagaggatt ttggaagata 240
atgcttctgc tgagtacttg ctgaatttgg gcttgaatgg gaggacggat cctgagagtt 300
tcaaggcctt tgttccactt gttactcata aagatttggg gccttatatc aatagaataa 360
ttgatgggta tttttcttct gttctcactg gcaaaccat cacaaccatg tctttgagtt 420
ctggcactac tcagggaaaag ccaatatatg taccatggaa tgatgaattg tttgacacca 480
cattgcagat atatcacacc tcttttgcct tcagaaacag ggaatntccc ataaacaaat 540
ggcaggcctn gggctttatc tacagcagca agcagttc 578

<210> 12880

<211> 544
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220143a02d1

<400> 12880

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 ggtaagttga aacgggggaaa agtacattaa aaaaacgaga aaagtaaaat ccaaatccaa 120
 aacataatga caagacaggt tattatctaa acttcaaaag ggtcttcgca aaatcaagaa 180
 caacccatga caattgggtct gcttaatcga ctctcctcaat tttgggtcca gcaccgcttc 240
 cactgccagc agcaggacca tcctcatcca tggctccacc cgcacaccca ccagctcctt 300
 ggtacatctt tgctatgatg ggggttacaaa tgctctccaa ctctctcatc ttgtcctcga 360
 attcgtcagc ttcagcaagt tgggttccat cgagccattg gatagcctgc tcaattgcat 420
 cctcaatttt ctctcttatca tcagcagaca gcttgggaagc aatcttatca tctttaattg 480
 tgttctcat gttataggcg taattctcca atgtatTTTT ggctncaact ttcttcttat 540
 gctc 544

<210> 12881
 <211> 488
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220143a03a1

<400> 12881

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 aatatgtctg attcgggtgt accgagtggc aaacatactc acagttgcta gtgggagatg 180
 gacttggatt agtgctatgg tgtcagagtt atgttttggga atatactgga tcactactca 240
 atctgttcgt tggaaaatcg tatatcaaac gcctttcaaa cacaggctct tacagagata 300
 tgatgatgag agtttaccag cagtggacat ttatgtgtgc acagctgacc caacacttga 360
 gccacatgc atggcgatga atacggcctt atcagcaatg gcgtacaatt atcctgcgaa 420
 taaagtgagc gtgtatctct ctgacgatgg atgctcagag ctgacatgct atgctctctt 480

ataagcct

488

<210> 12882
 <211> 275
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143a04a1

<400> 12882

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 cattaaccga cggtgactag aacaacacca ttaagagaag ttatgagcca caaggctgct 120
 aagaatcatc atgatgatga ggatgctgat aacgatatga cagtggcact aacacatcac 180
 tctagcaggg aaagaataac tggaactgtc tcgaagcaca tcggccaatg tacgaacagt 240
 cacaaaatgc gcattatgtg cctgtcatatc gaaga 275

<210> 12883
 <211> 219
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143a04d1

<400> 12883

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 accagtcggc ggccgcttct actttttttt tttttacttt atcattttta atttttaacc 120
 cctgaaaaac ccccaaagcc actgggacaa tataactccc caaactccac acaaaaacac 180
 caatccactc aaaccaatg caaaccattc acgaacgca 219

<210> 12884
 <211> 570
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143a05a1

<400> 12884

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<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143a06a1

<400> 12886

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tttctaagaa gaatggaaac tgtgtgttta aaatctggga tggttccac gatctctatt  180
agtgggtcgc tggatgcacg tgccaatcct tctcaggtga gcacgggtggg gcgcgccgcc  240
ggggataaac cgccgcagag gtcgggtgttt tcgaggtttt ccttttggtta ccctttggaa  300
tctctctggc ctcgggggaa caacagcagg taaaaagggc tggccctcga cgacgccgtt  360
ttggcggaca acaacgccga agcgaatgcc gttagagatg acggccaggg tgacggaacg  420
gaaaggcaga ccgatctgg gttntgaaga tctgcatgta agtccctgtg ggaagggaac  480
agcgcacgac aagatgtacg gtcacgatca actcaaccaa tttcacgaga agaggtgtgt  540
gatgt                                           545

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<210> 12887
 <211> 537
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143a06d1

<400> 12887

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ttgtgtcccc catgcttaat aatgaatcat cttataaatt catttgaggt taattacgct  120
atatgttccc aagagcaaca accgagcagg gaacaaaagc aacacaaaca aatgcatatg  180
ttgggatgta acaatcctac tgaacctttt cagggactct ctccctgttt gtatcacgct  240
ggagaagggg gactggcggt gaccacatt gattgatatc atggacctcc cagcaacaat  300
gctggtatca gctccacgag ataacagaag aggccaccac accttacgcc gttgctccct  360
cttagcttta cggatctggg taagttcttt gcgaatcaca gttctcaaag actttaagta  420
agagttcatg tcatgatctc gttgtatact ttctccagat ccataagcag atcggtcact  480
taataatcta agtggatgag gtgagtttaa gaagaccatc tgagcagctt cgagccg    537

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<210> 12888
 <211> 539
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143a07a1

<400> 12888

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 actcccctgg cgacagcatt ccagactgga tctccgaatc aatcaacggc ggctccctcc 120
 gccgcgtcga cctcaactcc ggcaccaacg gctgggcgtc gccgccaggc tccgtgttct 180
 cctccgctc cgaaagtac ttccagaacc gccaaaaatc tcccgccggc gactacctcc 240
 tctcgccggc gggcatggac tggtcaaact ccgccgcgaa actcgaccac gtgctctcac 300
 gcgcggacaa ccgcgtgatg caccgcgtgc gaagatgtca aaccctaggt cgctccctaa 360
 agagcttcgt cttcgcggtg aatctccaga tcccgggcgc gaaggagcac cacagcgcg 420
 tggtctactt cgcgaccgag gaaccggatc cggtcgaaac cgtttcactc ttaaaccggt 480
 tcgtgcacgg cgacgacgcg ttccggaacc agcggttcaa gctggttgac cggatcgcg 539

<210> 12889
 <211> 573
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220143a07d1

<400> 12889

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 tttttttttt tcttttgggt cttggtttta tttattttca ttatttttct ttttaccttt 180
 ttttcaaagg ccccaagaaa aaaaatttaa cccagaaaaa cccaccccaa aaaaccccc 240
 aaggggccaa aaaacggggc caaaacccaa aataaaagaa aaaaccttgc ggggaaaaaa 300
 cccccaaaaa cgggggaaaa aaaacaaaa accgccccca aatcccgacc ttccaacccc 360
 ggaaaggcaa atcaaacccc ttctaaaggg gcccccaaaa taaaaacctg gggccgcttt 420
 taaaaaacgg cgaaagggga aaaccccggg ggtccccaaa aaaaaccctt tgggaaaaaa 480

cccccttttc ccacgcgggg aaaaaacaaa aaggccccc cccgaggccc ctaccaaaaa 540
 gtggccccc ccaaagggca aaggccccc ccc 573

<210> 12890
 <211> 549
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143a08a1
 <400> 12890

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 aaaccaagg acccaacatt tcacctcatt tacataaact tcacctcttt aaaactcaat 180
 ttccctctct tagacgcaga ggttctcttc acggtccacg tcaccaacce taatatcgcc 240
 cccatccact actcctccac ttccatgtcc atcttctacc aaggttctct tctcggtcgc 300
 gctcaggttc aagccggctc ccagccgccc cgctcctgcc agctcctccg cctaccgcga 360
 cgctcctcacg cgctcgagct cgctcaccac gccacgcgt tactccacga cgtcgcgcgc 420
 cgcgagatgt tctcgcacgc cgcggtgtga tatcgccggc accgccaggg tcatgtggtg 480
 ggaccataac ttcaagggtcc acgtggacag ccacgtcacc gtctatcccg tgttactcga 540
 cgtcattga 549

<210> 12891
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143a08d1
 <400> 12891

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 gttttatttt aatttttttt ttattttatt tttttttttt ttttttttaa aaggcaaaaa 120
 aaaaaattat aaaaaaaaaa aaatacacaa aaaaaataaa actaagggat aaaaaatcgg 180
 gataaaaaaa aaaaaataaa taaaaaaaaa tgggggaaaa aaaaaccaa aaaaggggta 240
 aaaaaaaga aaaattgacc caaatccga agtttacaaa ccgggaaaaa aaaattaaaa 300

actttttaaaa ggggaaaaaaa aaaaaaaaaa aaaggggggt ttttaaaaaa aggataaagg 360
 gaaaaaacgg ggggttcccc aaaaaaaaaa ccatggaaaa aaaacaccct taaccaagtt 420
 gagat 425

<210> 12892
 <211> 375
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143a09d1
 <400> 12892

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 aggatttcaa aggggggaaac cctagattcc aacttataag cctcattttg aaacaaaatc 120
 ctaattaaca gggatatagc ccaaggccaa acaaaacagg gaggccacac cacacacaat 180
 tttccccaga gattctgagt ctcacatccc ggaatctatt ttgaagccgg ggggctttca 240
 taaaagcctt taacaaaacc ctaattctta aaaataccaa ggctcacccc ccatcatcaa 300
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 ctagggggcc aactt 375

<210> 12893
 <211> 605
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143a10a1
 <400> 12893

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 ancgcctcat gcgcgattna ccgggggaaa gccactcact agncggggga cgccctcttt 120
 ggcagtgata cattttttga acgtttatca aaccaaagaa ctagccgggg ggtagggct 180
 cactggctca cctaacatcc cggttctgaa cgacccatcc aatctctctg ccaaagctga 240
 gttggaaaga gcattgcaa aagggcattg ggaaagagag aagaataggg gagtggtgca 300
 cagtggttgg tttcagcagc agcttgtgct gaaacactca agtgtggggc gctatgcatg 360

aagaattttg caattggcct ttgctacaag cagcatgaat cacacaggca aaaaactgct 180
 ttgaaatgta ttatacagat acagaaccac atatactatg gtccatgtcc aacaatggaa 240
 acaagccagc aacccaaacc taaattttgc acgttagtcc aaaacagcat cgaatatggg 300
 acgtaattag ctaccctcaa ccgcacacgg gtgctgcaca aaacaagcca tcaatcatca 360
 tggatcatcca aagatgtgta gatcatccaa aacaaggatc ggaaaaggat caaaacaata 420
 tagaagagtt tgaaaagc 438

<210> 12896
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143a11d1
 <400> 12896

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 tccaaggccc tttaaactgg aaattttacat ttcccaaaga ttccctttac ccacgcccc 180
 tccactatgg gggaaccctt atatctaatt caaccccaat ggggacccta ccaaagacg 240
 ttattcacga gccgttgggg ccaaaaccta caaggcccaa caaccttggg ccttccaaac 300
 gaggggttaa ctaaaaggta ttcaaggga tatgcccgaa aggcccgag gttggaaatg 360
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<210> 12897
 <211> 628
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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 <400> 12897

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 aacatatcat gcgcacatac ctaagctcgg cattcttatt aaaatgaaat tcaaatcatt 120

tcttttataa atttaaaaaa aattcttttaa ttaaatattc aatgaaatta aatattttaa 180
 ttaataaaat tagtcctgtc ttattccatt gcttgaattg gtttcttttt acagcagcta 240
 atgctagtca ccgcacttag tcaatgagct agaatgggtt ctaaagatat ccatagacat 300
 atatagatat atttatctat acatatcttt agaaaaacaa aaggagggat atctcctagg 360
 acgtatcatc ctatgcatag cagtggggaa ttatgggaca aacaataaat ccgctgggggt 420
 tcagactagg ctcaactcag agccatgaca ctattgggtt agctcagcca acacattatt 480
 ccgagactat acacgaggat atagaagtac gacattgtat caaaaatcat ctacaaaaaa 540
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 atcctattca aggtataata tatatggg 628

<210> 12898
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143a12d1
 <400> 12898

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 ccaatgcctt ttaacatgga aatttacata tcccaaagat tccctttacc cagcccat 180
 aactatgag ggaaccata tatctaattc aacccaatt gggaccctac cacatgacgt 240
 tattcacgaa ccgtttgggg caaaacttac aagtcccaac aactttggac cttccaaacg 300
 aggattaatc tcaaaggtct tcaagggaaa atgctcgaaa ggcccggagg taggaattgt 360
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 cttgggg 427

<210> 12899
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143b01a1
 <400> 12899

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 tgaagatggt ggagaaagtt gaagaattta acacggagag gatgatggag gaatttgaga 180
 gggtgacaaa ggatgctgag aggattcaaa gggaaaccct gaagaggatt ttggaagata 240
 atgcttctgc tgagtacttg ctgaatttgg gcttgaatgg gaggacggat cctgagagtt 300
 tcaaggcctt tgttccactt gttactcata aagatttggg gccttatatc aatagaataa 360
 ttgatgggtg tttttcttct gttctcactg gcaaacccat cacaaccatg tctttgagtt 420
 ctggcactac ttanggaaag ccaaaatatg taccatggaa tgatgaattg gctgacacca 480
 ca 482

<210> 12900
 <211> 583
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220143b01d1
 <400> 12900

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 acaattcctt ctctcctcgc cgtggatcct cttctcgccg agtctctctt ccgatccgcg 180
 cttcttctta ccaacacgaa ctctgcaaaa ccgccaatc tattgcatct cccggtcgtg 240
 gaattcttgc aattgatgaa tcaaatgcca catgtgggaa gcgttttagca tccattggat 300
 tggacaatac tgaggatgaat cgccaggcct ataggcaact tctgctcacc acacctggcc 360
 ttggtgaata catctctggt gcaattcttt ttgaagaaac cctttaccag tcgacaacag 420
 atggaaataa atttgtggat tgcctccgcg atcagaacat tgtgcccggc atcaaagttg 480
 ataaggtctt ggtccctctg ccagggtcaa acaatgagtc ttggtgcaa gggctggatg 540
 ggttggtctt taggtctgct gaaactacaa gcaaggtgct cga 583

<210> 12901
 <211> 376
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143b02a1

<400> 12901

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 gacatgtcga ctctgggaag tcaactacca ctggtcattt gatctacaag cttggaggta 180
 ttgacaagcg tgtgattgag aggttcgaga aggaggctgc tgagatgaac aagaggatcat 240
 tcaagtatgc ctgggtgctt gacaagctca aggctgagcg cgaaagagga attaccattg 300
 atattgcttt gtggaagttt gaaaccacca agtactactg cacagtcata gatgcccccg 360
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<210> 12902

<211> 174

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143b03a1

<400> 12902

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 aacataaaga cgacaagggc atgaagcggg aaggcggatc gactcgcaga gtagggatgg 120
 acttctactc aaaccgaaca ggcagcaccg gcaacatcta cggcgcgctt tgca 174

<210> 12903

<211> 588

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143b03d1

<400> 12903

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 tgactccac atcaagcaac ttgatcaagg cagggaatc caactcagac ttgaccaaag 180
 ctctggatgt ggatttgctt ccaaggtgaa gtacatgttc gggcgtgtta gcatgaagat 240
 caaactcgtc cccggagact ctgctggcac ggtcactgca ttttatttga actctgacac 300

gaactacgtt cgcgacgagc ttgatttcga gttcttgggc aaccgtactg ggcaacctta 360
 cacagttcaa acaaacatct acgctcatgg aaaggggtgac agagaacaga ggggtcaacct 420
 ctgggtttgac cctgctgcag acttccacac ctattcaatt ctctggaacc atcaccatat 480
 tgtattctac gtggatgatt ttccaatcag agtatataaaa aacaacgagg ctcgggggat 540
 tccataccca aagatgcagg caatgggggtg tattcgacat tgtgggaa 588

<210> 12904
 <211> 562
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143b04a1

<400> 12904

gccgccatgg gaaatgcctt cctcttccag ggcggagact gtgctgagag cttcaaggag 60
 ttcaatgcc acaacatccg tgacaccttc cgcacatcc tccagatgag cgtcgtcatg 120
 atgttcggcg gccaaatgcc tgtcatcaag gtggggagaa tggcggggca atttgcaaag 180
 cctcgttcgg attcgtttga ggagaagaat ggcgtgaagc ttccgagtta cagaggggat 240
 aacattaacg gagactcttt cgacgagaag tcgaggattc cggatccgca gaggatgatt 300
 agggcttatt gccaaagccg gccacgctg aatcttctca gagcttttgc caccggtggt 360
 tatgctgcta tgcagagggt tactcagtgg aatttggact tcacggatca cagcgaacag 420
 ggagataggt accgagagct tgctatccga gttgatgagg cccttggatt catggctgct 480
 gctgggctca cgttggacca tcccataatg agaaccactt gattctggac atctcatgag 540
 tgcttattgc tgccttatga ac 562

<210> 12905
 <211> 666
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143b04d1

<400> 12905

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tcgtttcttt attatcaggg aaaggactct tgtccttggc agttcaaacg cattactaga 180
 tagtatacac atacaaacac agaacacaac atcaaagtga caaccatcga ttaataataa 240
 atatgtaggg caaataaaaa acgaacaaag atatctttct cttgttgctt tttgaaggtg 300
 acttttacag tactcctaga ggggcaagag gttgctgcca tctgatcctg ctctttctca 360
 aacgctcagc gatgatgaaa gcaagctcaa gagattgtga agcattgagc cttgggtcac 420
 agtgtgtgtg gtaacgtgag ctcaagtcac caaatgtgac cgtccttgac ccaccaatgc 480
 actcggtcac attctgaccc gtcactctca gatgaacccc tctgggtgg cttccttctt 540
 gctcgtgtac gtcgaagaat gctctcactt cggccctgat ggaatcgaag gggcgagttt 600
 taagaccaca gggagcctta atgggtgttc catgcatagg aacactgacc caagtgacaa 660
 tttggc 666

<210> 12906
 <211> 324
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143b05a1
 <400> 12906

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 caccgattaga tacttcaact aggacacatt gttcatgttc ttcagagctg aagcaagctc 120
 acattcacat aagatcgaag agctgaatga aacacatatt aaaactagga gtataacacg 180
 gggctgaagc tatactatag agccatgatg ccatctgccg acttctctgc agccatattc 240
 aggaacttgc ccagaaaacc ctatgatgaa tgacactctc tctcgtttgg tgacagcata 300
 caagatcatg catcatgata gcaa 324

<210> 12907
 <211> 537
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143b05d1
 <400> 12907

gacatctcaa ctgacccgac tccgactctg atgttgtagt gccataacc gttagacccg 60

ataccagtcg gcggccgctg tcaaagtga ctttattatc ctacttttca ttttttcccg 120
 ggaactgatg acacagtcg aaggaaggac tatgcatctg actgtgacat aaacagagga 180
 gtatgtaatg tgcttcttcc tgaaatacta cattctgatt cttcgcgctg gtgtaacacc 240
 agaagaagga atcgttgtag aagcctcaga actttgagga gcattgaaac acttggccac 300
 aagctgctca atcggatcca ctgcacaacc gtgcagaaca aggtcagaga attcagcaac 360
 ataggagca tacttgtaga aaaccctgta ttgccccca ttggtagccc aatcagatgc 420
 atcccatatt gatgcataca aagtcatagg cttagaaggg aaatgccctc ccatagattc 480
 tgtacgagta acttatctaa taagaacatt gtccacataa aatatgatct gagagtc 537

<210> 12908
 <211> 605
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143b06a1
 <400> 12908

aaataaatat cacggagaat catattagca attgggattc agttgagtgc agttgtaggt 60
 cagaggatct gaatagcaag ttttcctttg aaaatgaaag caacgttcac caaactaggc 120
 gtattaggaa gagccagtct cttcaaagtg ggcttgacca aggcataagg gaaggtgatg 180
 aagatcttgg gttgtcttgt gatggtgccaa aaagccagaa tgagtcaaca atttctatta 240
 gaaggtatca taatccaaat gttgagtttc aagtctgttc aggtcttcta aatgatgtct 300
 caattttttc aattggagac cctatacctt cagataaaga tgcccatgaa atttctgata 360
 ctccattatc tgggtgaattt gctggtaaca ttctgacca ggacttctgt cctgggtatcg 420
 tatctctang cagtcacgtt ctttaccxaa tatcagagct tctatactnt cttctgaaaa 480
 agatgctttt aaacatgcaa tgtcaaagat cttctgatga tcttcatgct ttacgcatga 540
 ngcanaaaga ggaattcatc actgagtttc atgatccaat aggggagatc aaganagaga 600
 gaatg 605

<210> 12909
 <211> 557
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143b06d1

<400> 12909

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atcaatatct agtgcaccaa acttaatcaa aagagagggg ataaactgtg ctaacagaaa 120
aacatgacaa atacgaaata acaaagtaaa tagatgcata tactgaaaga aaggcggtga 180
acaaatcaat ttggtatgga acagcctctt acagaactcc aaaatttccc tcaactgcgac 240
tcttgcgcat ggagagctct gaaaccaagt tcaatgcttt gtcgggagca tcaaaatgat 300
agcgactttg gggtgatact ttggttctag ttggtggcag gagaggctgc ttacccttgg 360
acagttttgg tgaatccaca cttctgagag catgagtaga cgtgattgat ggctccgtg 420
tggtctgaac accttggtctg cccttccttg tggctcttgcg atccgctcta aagccgcat 480
caaactgatg ggaattcatt cctaaccgaa ctgaacgttc tgctccatcc ttcaaagagc 540
tcactttcat aggctgc 557

<210> 12910

<211> 512

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143b07a1

<400> 12910

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gagagagtgt gtgtgtgtga gtgaatttcg aaacccaac ctctctttct ctctcttcca 120
ccaagtgaca cagtcggtgg gcttatacat acatacatag agggaccca acgggtcttt 180
cccttttagt tttatctgct tcgcctcgtg actcccttct tctctgttac tgaatttaac 240
actgctcagc tttcatacac ttcaatccca ttttattggc cacctttccc ttattcacag 300
tactactact tccttattca acagacacca attccagttt ctcttttcag gtttcggaat 360
caatcaatgc cgtgttttta gatacctgcc tgcttttagct accctacgaa caaccttttc 420
acataattgg taatagtcac aaaatagcaa gtcccagatt tttattttac acgattctcc 480
tctggaagcg tctatttctg gcttctactc tc 512

<210> 12911
 <211> 282
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143b07d1

<400> 12911

ctacagggcc caggtacaaa tctaaaaccc aactaaaca acacaaaaaa caaaattata 60
 tctacaaaaa aaaaacatac atccacacac ccaattacaa accagacatt aaatattaca 120
 accacagaca aacaaccatc attgaacgaa aaacaaatca aacacaataa aaatctcacc 180
 acaggactaa aaaccaggca ctctgcaaaa aaacccccct aacaacgaag gatccccacac 240
 aacttaccca agtaccatac agcccccaaa aaataacacc aa 282

<210> 12912
 <211> 350
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143b08a1

<400> 12912

ggtgcttctg tgtaacattt tccagcggtt tttctctgtt acctgtcctt ctcaacctct 60
 tacagttcat ttttcattct gcagaggatt ctgggttggg ggggttgatcc tcttatcatt 120
 ttttacttat ataagttata tttacttatt gatagagggc gtcaatattc gccctacaca 180
 ggtttttttt tttcctaccc aattttggtg gtgaatgtga tatagggatt tgtgcagtga 240
 gtttctaggg ccaatttttc gcaaagttag taaggagaaa acatgatccg atgtaaagct 300
 atattggatt gtaacgcatg cattagactt cccatattgt catcgtaact 350

<210> 12913
 <211> 552
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143b08d1

<400> 12913

agtactatgg gatcaacatt agggatacag cttctcccca tgcagagcag gaagtgggac 60

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 ttgcgaaagt aaattggatc aaggtcgtca tatcagtggg taccatcttc aaggggttgtc 180
 atttctatcg gtagtaagcc tgctgataag tgggagccaa aacatttcca tagccacat 240
 atgcaggagg atagttcatg ggagctgccg ggtaagaccc tgcaatagcc ggtgccggct 300
 caggtgaata agcagcataa ggatttgctg ggggacttct gctgccatac atgtgggggtg 360
 cggaagggta atgctggaag agcagctggg tattggccgt gtgatggaga cctgacaaat 420
 gtaggagcag cagggaaaga tgatacatat gcattaggca aacgcccagc tttggctgga 480
 ggcattggac ctccattgct gttgcttgct cgagttcttt taatggcagg aacagcaatc 540
 cgtttccttt tc 552

<210> 12914
 <211> 477
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143b09a1

 <400> 12914

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 gggggcacca aaaacagcgc atatcattat caaatgttcg aacatgaaca cgaacacgaa 120
 aactaacat aaaaatccag ccaacaaaac tgtaacaaga tgatagtggg tatctagcta 180
 ttaagataat caatgtatca agcgcgatca caaatccacc ggattaaaaa aaaaattcct 240
 caaaagacac ggtaagattt ccccatgtga ctctacagat acaagcacct gacatttagc 300
 caggcctttt tcaacaaaaga gacaaggaaa ttaacactca gttgaacatt gtggaagatt 360
 ggcttttcct ccatactaac attccccaca gctactccca tgcagagcac cttcttaagt 420
 tgaaatttaa ccatggcctt ggactcagaa accttcgact caagagtttc ctggtga 477

<210> 12915
 <211> 448
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143b09d1

<400> 12915
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 ccagacagca gccgccggcc gccctnaaat taaaccagaa cctttactact ttacagaaac 120
 gaaaccgcaa agaaggggccc agagaaacaa gcagacatag gaacgaccac aaacaaacga 180
 gaaagaggac aaaccgaaac acaagaaaca caaagcaaca acaaaaaacc ggaaatcaaa 240
 gctcacattc cagtaaaagc cttctttgca ccgctagaag aaccagctgg gatcactatc 300
 aacacagaga acctcacagc ctaagaaaga ggccggcaag gaccacaaac aacgaggccg 360
 gataagccta gaggaaagcc acaagaaacg agccaatcaa gatcagacca aatgaaacaa 420
 ggaagaaacc cagcagagac aaaacgca 448

<210> 12916
 <211> 538
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143b10a1

<400> 12916
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 ttncgggaa aggcgcgaac gaggcggcag ccgccctaga tttcgtatat taacatttaa 120
 aagttttctg agagatgaaa aaaacaacgg ggttttggga ataatcacgt gttctcaaat 180
 agcttaaaat caagcgtaca gggaaattac aaggttaaga cttttgcagt gggcctttgc 240
 tacaagcagc atgaatcaaa caggcaaaaa actgctttgg aatggattat acagatacag 300
 aaccacatat actataggcc atgtccaaca atggaaacaa gccagcaacc caagcccaaa 360
 ttttgcacgt tagcccaaaa tagcatcgaa tatgggacgt aattagctac cctcaaccgc 420
 acacggatgc tgcacaaaac aagccatcaa tcatcatggt catcaaaga tgcggagatc 480
 atccaaaata aggagaggaa acggatcaac acaacataga agagtgtgaa aagcctgt 538

<210> 12917
 <211> 523
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143b10d1

<400> 12917
 ccatagtcatt gttcaatatt gaaggatgaa tatgtacaca acaatggaac caaacgagaa 60
 aagcagatat ccaaacgggc taaaagcaaa gagtcacaca ctcatcatat taggttacac 120
 ttttaaccac ttagaaagaa aaatgctgga ctaagaatca gctaagcttg ttagcccaaa 180
 gttgccaat tagcttcaact tccaacacgt ggcattcacct ggatctttga ctgagagtca 240
 acattgaagt tggccccgca cataaccccc tcgctgtcaa tccgaggcat tgctttcatt 300
 ttctgtgttg gatgctcaaa gttcatgaga ccgtgttcac tatgaaacat acaccagct 360
 ggaaatggtg caaatgattt agcacaactt gcttttataa gctccagatt ttcagaaatt 420
 ataacagaac catcacctgc aataccccag tagagctcaa tatggccatt agaaccagat 480
 gcaacaaaaa ctgttccatt cttggtgtca tagatcacia atg 523

<210> 12918
 <211> 539
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143b11a1

<400> 12918
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 attcatcccc gatacagaga ttcaaccaca attcaggaaa gaaaaacgag acaaactccg 120
 tttcgatca atagaagctg gaatcgatc gaatcgagag atacggatcg tgaatcatta 180
 ttgtagaagt ctctgggtga tggctggttc agaacctgta agtgcagagg gagagagtat 240
 ggctgtggat gctgccccaa ggaagccccg gattctactt gctgctagtg ggagtgttgc 300
 tgctgtcaaa tttgcaaatt tttgtcattg tttctctgaa tgggcagatg taagagcagt 360
 ttctcaagt ggatctttgc atttcattga tagagcatca atgccaagg atgtaattct 420
 atacacggat gaggatgaat ggtctagttg gaagacatta agtgatagtg tgcttcacat 480
 tgagcttcgc aaatgggcag atatcatggt catcgctcca ttatcggcaa acacccttg 539

<210> 12919
 <211> 287
 <212> DNA
 <213> Glycine max

002220143b11d1

<223> Clone ID: jC-gmf102220143b11d1

<400> 12919

ggatcctagc cagccctctt ctagcctgtt acttggaggt cagtcaagg ttaacggcaa 60
agaccgcgc actaatcggg ggccgccctt aatttctgaa tccctgtttt ttcatttttt 120
ttactttttt tgcgccaccg ggggcagggg catcttttgg aaacaaaaac gacgcaaaaa 180
tgcacgcagg gagggaccaa ggccatatct gtttactgtg acaacaagg atccgcacac 240
attaacacac agcggacaac ccaaaagcgt aacgaattcc aacggcc 287

<210> 12920

<211> 582

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143b12a1

<400> 12920

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aagcatccat ggccatggcg tctgcaaagc tcaacacctt gtcttcccag tggatcgccc 120
acaattcctt ctctcctcgc cgtggatcct cttctcgccg agtctctctt ccgatccgcg 180
cttcttctta ccaacacgaa ctctgcaaaa ccgcaaatc tattgcatct cccggtcgtg 240
gaattcttgc aattgatgaa tcaaagcca catgtgggaa gcgttttagca tccattggat 300
tggacaatac tgaggtgaat cgccaggcct ataggcaact tctgctcacc acacctggcc 360
ttggtgaata catctctggt gcaattcttt ttgaagaaac ctttaccag tcgacaacag 420
atggaaataa atttgtggat tgccctccgc atcagaacat tgtgcccggc atcaaagttg 480
ataaggtctt ggtccctctg ccagggtcaa acaatgagtc ttggtgcaa gggctggatg 540
ggttggtctt taggtctgct gaatactaca agcaggtgct cg 582

<210> 12921

<211> 506

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143b12d1

<400> 12921

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 aaaaatagaa aatccgacaa cacatgattt ttaagaatat aaacacaaga atttgatgag 180
 tgcagctagc tcacaagaat ttatccaaat attttccaag aagagaagct atgagccttc 240
 tataaacgct ttcagtagga tgaaaactgt cccaaaacac atactctaaa tcgttgggac 300
 acaagggagt gaaacggttg cataataaca caacctctat tgttcccgtg ccacagcaac 360
 ccttgtctcc gactttatag ccatatTTTT tgtagtttat aatgatgtca aagagaggg 420
 tgtaaacatc aatgtaaact atcctgctat cttgaaagtt gtgattgaga gaatccagct 480
 cctttgacaa tttgctgtta aataac 506

<210> 12922
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220143c01a1
 <400> 12922

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 ttctgtgct cctcctcgtg tgggtgcacct acgcacgagg tttttgtagc taccaccgtg 120
 cccaattcac atcgcatgtt tcgaacgctt tgtgctgcaa ctgaaatcga aaatcagaga 180
 aagcggagaa gagagagaga gcatggctga tctctttgcg tggctcatct ccttcttcat 240
 tcttattgcc ttaattgtac tcgtcattta ccagttaatg tgcctggcag acctagaatt 300
 tgattatata aatccatatg attcctcatc tcgaataaac aaagtgatat tgcttgaata 360
 tattataggt aggtgtccta ttcggcttc 389

<210> 12923
 <211> 578
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220143c01d1
 <400> 12923

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<223> Clone ID: jC-gmf102220143c02d1

<400> 12925

ggcaatgtct taccaaatta gaaattcttt tgtcttcttt ttcctttgtg ttcttctctt 60
 tgggtgtgtct gctctgggtc gaccagccac ttttctgcaa gactttcatg tcacgtggtc 120
 tgactccac atcaagcaac ttgatcaagg cagggcaatc caactcagac ttgaccaaag 180
 ctctggatgt ggatttgctt ccaaggtgaa gtacatgttc gggcgtgtta gcatgaagat 240
 caaactcgtc cccggagact ctgctggcac ggctactgca ttttatttga actctgacac 300
 gaactacgtt cgcgacgagc ttgatttcga gttcttgggc aaccgtactg ggcaacctta 360
 cacagttcaa acaaacatct acgctcatgg aaaggggtgac agagaacaga ggggtcaacct 420
 ctgggttgac cctgctgcag acttccacac ctattcaatt ctctggaacc atcaccatat 480
 tgtattctac gtggatgatt ttccaatcag agtatacaaa aacaacgagg ctcgnggat 540
 tccataccca aagatgc 557

<210> 12926

<211> 67

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143c03a1

<400> 12926

aaataaaaaa taaaaaattt aaaatttaaa aaaaaaaga cagacagaag agagagaaaag 60
 agagaac 67

<210> 12927

<211> 274

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143c03d1

<400> 12927

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 agtccacagc catcatttct gggacaatat tccaatgggt taccttcaag ctaatatgggt 120
 atccttaagt ctgatgaaaa tagttttaag tagtgacta gaggtcctga gcttgattta 180

tgtaacagaa gtcattcttat agatgttttt gtctttgagt ttgactcttc ttcctttcaa 240
tatttagcat attgactaca ttatacctta atac 274

<210> 12928
<211> 55
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220143c04a1

<400> 12928

gtcactctgt tctgtctggg agtccagctc agcacctaga aggacgagct atgac 55

<210> 12929
<211> 210
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220143c04d1

<400> 12929

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ggcgcccgcc cttttttttt tttttttttt tttttaattt atcatttttt atccactaat 120

atccaccagg gggacgggtc cacactccaa acgcaccata caccaaagcg aaaaagggcg 180

aaacaaacac ccgggacctc caaacttcac 210

<210> 12930
<211> 601
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220143c05a1

<400> 12930

aatggcaag aatatcaaatt tgggtctcttg tcttctctct catctctaca ctactccaca 60

tagagcccag cctctcaagc ccaagcccaa gcccaagccc aagcccgttc ataaaatcct 120

cctgcagcag caccagtagc ccagccctct gcgtctcatc cctctccgtc tacgcctcca 180

gcattcaaca ggaccctcac caactgggtc agacagcact ctccctctcc ctgaaccgca 240

cccaagccac caaaccttc gtggctaact gcaacaaatt cagaggcctg aaaccagag 300

agcacgctgc actcaaggac tgcgccgagg aaatcagcga cagcgttgac cgcctcagcc 360
 ggctcgctgaa ggagctcaag ttatgtaagg ctaaaggggtg aagacttcac gtggcacatt 420
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 ttctccgga ggcgctgatg ggaagatcag gactctatta ggctaggatg tcaatgggtg 540
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<210> 12931
 <211> 680
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143c05d1
 <400> 12931

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 atttactcac atatataata atgacatgga gcacgtaaaa gaagaaaagt aaagcattaa 180
 gcaaccaaga tcattgttcc caactagtgt tgtgcagcat agcggttaat aagcgagaga 240
 gcattgctag taacctgagc aacattgagc atcctagccc taatagagtc cttgatcttc 300
 ccattcagcg ccttcccgga gaatccatcg ccgcaagtgc tctcatcggt caaagcagaa 360
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 aacttgagct ccttcagcga cgggctgagg cggtaacgc tgctcgctgat ttctcggcg 480
 cagtccttga gtgcagcgtg ctctctgggt ttcaggcctc tgaatttggt gcagttagcc 540
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<210> 12932
 <211> 514
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143c06a1

<400> 12932

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cctgcagcag caccagctac ccagccctct gcgtctcctc cctctccgtc tacgcctcca 180
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agcacgctgc actcaaggac tgcgccgagg aaatcagcga cagcggtgac cgcctcagcc 360
ggtcgctgaa ggagctcaag ttatgtaagg ttaagggtga ggctttcacg tggcacattg 420
caacgtggag aatgggttca agtctgcttt gaccgatgag agcacttgcg gcgatggatt 480
ctcggggagg cgctgaatgg gaagatcagg actc 514

<210> 12933

<211> 696

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220143c06d1

<400> 12933

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tatataataa ttacatggag cacataaaag aagaaaagta aagcattaag caaccaagat 180
cattgttccc aactagtgtt gtgcagcata gtggtaata agcgagagag cattgctagt 240
aacctgagca acattgagca tcctagccct aatagagtcc ttgatcttcc cattcagcg 300
cttcccggag aatccatcgc cgcaagtgc ctcacggtc aaagcagaac tgacccatgt 360
ctccacgttg ctaatgtgcc acgtgaagtc ctcacctta accttacata acttgagctc 420
cttcagcgac cggctgaggc ggtcaacgct gtcgctgatt tcctcggcgc agtccttgag 480
tgcagcgtgc tctctgggtt tcaggcctct gaatttggtg cagttagcca cgaagggttt 540
gggtggcttg gtgcggttca gggagaggga gagtgcgtgc tgaaccagtt ggtgagggtc 600
ctgttggtatg ctggaggcgt aaacggagag ggatgagacg catagggtc ggtactgggt 660

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696

<210> 12934
 <211> 561
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143c07a1
 <400> 12934

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 tttgtaagtt gggtgtcatc gtgaagcaca ccagcagtgt cgctcgtgaag cacgccagca 120
 gtttcatcat tgtcatcaac cattctccat cattgtcgtg ggtcattttc catcattgtc 180
 gtcgaccatt ctccatcact gtcgtgggtc agcttccagg tcatgttccct ttctcccttt 240
 ctttcttata catagtctct aaggtaaaag ggctttgtgg tgcccttctt tgaatttggt 300
 tgtatctgca cccctgttct ttgcgcaacc atatagctta ctgcatttca aagaaactag 360
 cactcgatta gggttagaag tatgatggaa ctgtgtaaat gcaacgaggc atccgttctg 420
 tctacgaaat atttaatctt tattggagac taaaagtcta gattcccttt tgatgagatt 480
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 gtggacttaa tttatttaac t 561

<210> 12935
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143c07d1
 <400> 12935

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 cctgagatca cgacatggga ctggcacaaa tcttgaaaga gcattaactt ttggctgatc 180
 atatataata tatacgacat gaacgaacac atacagagta cacataaaaa ggggggacat 240
 tcagcactaa agccacagct gaaagaacag aattgaataa gaggggaagga aacatagaga 300
 aaataagcac aatccgatga ctgaatgcca atggatgcgc aaaaggaccg tgccaagagt 360

gtcggaaacc cgatgagtta aacacgtacc ttgagcccct tgagtggctg acaccactta 420
 cgatgtgaag gcatggacat tgctgcaaaa acgcacatat gcacaagccc acaagaacct 480
 gcccaattaca cccctgttga gatcaatggt gaagcagatc atgcc 525

<210> 12936
 <211> 563
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143c08a1
 <400> 12936

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 gtgttcagca gctccatagt gtgcgcgcgc gacgagctcg tggccgcgcg cagccgtact 120
 ccgtcgccga agatgacggc ggcggcgctg cggaagcggc tcgaggagaa gaaccctcc 180
 gccgtgtcgg tggaggtcgg agagcatgtc cagctcgctt ataccaccca caacgagtcg 240
 ccgtttcagc ccagatcctt tgctgtcaag gatgaggtgt tctgcttggt tgagggagcc 300
 cttgacaatt tgggaaactt gagacaacaa tatggactgg ccaagtcagt caatgaagta 360
 ttgttgggtca ttgaggctta caaagctttg cgtgaccgag caccctaccc tgctaatcat 420
 gttgttggcc atctcagtg gagctttgct cttatagttt ttgacaaatc tacttctacc 480
 ctctttgtgg catctgatcc atatggtaag gtacctctgt attggggaat aactgctgat 540
 ggctacgtaa catttgctga tga 563

<210> 12937
 <211> 534
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143c08d1
 <400> 12937

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 aattctaata gctttggaaa acaacttgag agatcaatag agataatcaa aagaagggat 180
 tgattgatta atttactttg tctctctcca atttcaacta ctcttcttag atggaacagt 240

accgtctggt cctgcaagga tgacatactt gtccttccta gtcaaattgg tgcactcaaa 300
 cccgagagtc cctgcaagaa ccctctgaat ataatttgcg acctcgatcg cagatttccc 360
 tcccttgtag gtgagttctg caggcaactg gttcaagaaa gtgatctcat aagttggcat 420
 gggattcatg aatacaaaat aaggatccaa cagcttgtgg ccgcgaacgg atgtcccgta 480
 taacacgctt tgcttgggtg tgatggcgac cgggacaatt ctatcggtta gctc 534

<210> 12938
 <211> 468
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220143c09a1

<400> 12938

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 cggggcaaac aaaacaaaaa ataattaaac cccccgaaaa aaccacaggc cgagccctgg 120
 gtcaaaacgg gagcccaaat aatacaaaaa agaccggttt ttttttatgc aagttttccc 180
 ccacaattgg ggatttctag ccttaaaccg ggttaccctg gggaaaaaga ccccaaaagg 240
 gatggccgaa ataccacctt tgcattttac ccttgaccct tcaagaacac aagagccccc 300
 aggaccact tttggtattc cccacatttg aaaaccattg gaggattatg caacccccca 360
 cccccctggg ggggggtggg taaccaaaca aaaaaccccg gaccttcccc tgaaaggggg 420
 ccagaaaatt gggaagccct tcccttcacc ctttttggcg gggcctaa 468

<210> 12939
 <211> 467
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220143c09d1

<400> 12939

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 tgctcgggtt tcaggaatgg aaatcgctcc cctgatatcc aaagctttta ttctccgggt 120
 gtgtcacagt tatgaacaaa tgtggcgctt tacatgacaa accctaacca ccatccacca 180
 tgcagggacc caagttcaaa gaaacagtca gaattcattt cattgcaaaa agaaattacc 240

caagtatcat aatccattca tttcaggggg aaaaaaggat tacttcagga tcaacctact 300
 gcgggtaaag ctaatctaag ttctcaaagg tgagggtgagt tcaccaacca ccggcagaat 360
 ttccagaccc ccatccgttc ccagatgctg ctttctttgt ggcagatccc caaccagagc 420
 ttcttgttcc accatcactt ggaccagaac caccacttgc ttgttcc 467

<210> 12940
 <211> 538
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143c10a1

<400> 12940
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 gggggcacca aaaacagcgc atatcattat caaatgtttg aacatgaaca cgaacacgaa 120
 acactaacat aaaaatccag ccaacaaaac tgtaacaaga tgatagtgtg tatctagcta 180
 ttaagataat caatgtatca agcgcgatca caaattcacc ggattaaaaa aaaaattcct 240
 caaaagacac ggtaagattt cccatttgta ctcttcagat acaagcacct gacattttgc 300
 cagttctttt tcaacaaaga gacaaggaaa ttaacactca gttgaacatt ttggaagatt 360
 tgcttttcct ccatactaac atgccccaca gctactccca tgcagagcac cttcttaagt 420
 tgaaatttaa ccatggcctt ggactcggtt acctttgact caagagtttc ctggtgagga 480
 acaagtgtag ggaactttcc tgccttggtg agaccaggac ccaaagacg aggaatct 538

<210> 12941
 <211> 519
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143c10d1

<400> 12941
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 gtgtcacagt tatgaacaaa tggggggcct tacatgacaa accctaacca ccatccacca 180

tgcagggacc caagttcaaa gaaacagtca gaattcattt cattgcaaaa agaaattacc 240
 caagtatcat aatccattca tttcagggg aaaaaaggat tacttcagga tcaacctact 300
 gggggtaaag ctaatctaag ttctcagagg tgaggtgagt tcaccaacca ccgccagaat 360
 ttccagaccc ccatecgttc ccagatgctg ctttctttgt ggcagatccc cagccagagc 420
 ttccttggtc accatcactt ggaccagcac caccacttgc ttgttcccag ccaccattgc 480
 cacttgact agcttcacct ccaccggttc caccaccac 519

<210> 12942
 <211> 524
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143c11d1
 <400> 12942

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 caatcttcta gcttctttgc agttgaaact ttgtcagctg atatacctgt atgtgctcaa 180
 ctacttgttt tggcatcagt tactgaagcc cctgagccag cattttgctt tacttctggt 240
 tgaggaccct tgtgagcaag cttctccagc ttcttttgcc atcatcgagc acgaacctct 300
 actgatgtag ataaacagta ccaacaaaag ctagcatctc tctctacagt aattgagaga 360
 attggcaaaa aaatatggat gtatactgtc ttttatagtt tcatcaacag tacaagaaga 420
 tatcgaagtt aaacaacaat ctatttacta agtaagttag gtagactaaa attgaagatt 480
 aacagagctc aacagtgaag aataattgta tccttatggt agca 524

<210> 12943
 <211> 588
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143c12a1
 <400> 12943

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aagcggagaa gagagagaga gcatggctga tctctttgcg tggctcatct ccttcttcat 240
tcttattgcc ttaattgtac tcgtcattta ccagttaatg tgcctggcag acctagaatt 300
tgattatata aatccatattg attcctcattc tcgaataaac aaagtgatat tgcctgaata 360
tattatagta ggtgtcctat tcggcttcta ccttgtaaca gggcattgga taatgtcatt 420
gatctgtgct ccttacctct actacaatgt gagattgtac agacaaggaa aacatctggg 480
tgatgtcaca gagatattca acttgcctcc taaggaaaag aagcaaggct tttcaactct 540
tctataatgt tntatccttt tctatcctta tttgatgatc acacatcttt gatgacatga 600
tgat 604

<210> 12946
<211> 538
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220143d01d1
<400> 12946

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ggagttcaat acaaatatgt cgaagaaaat ttgaggaaca agagtgaact gcttctcaaa 180
tccaaccag ttcacaagaa ggttccagtg tttattcaca atgagaagcc catagcagag 240
tctcttgtga ttgttgaata cattgatgag acatggaaga acaaccccat cttgccttct 300
gatccttacc aaagagcctt ggctcgtttc tggccaaat tcattgatga taaggttttt 360
ggtgctgcat ggaaatccgt tttcacagct gatgagaaag agcgtgagaa gaatgttgag 420
gaagcaattg aggctctgca gtttcttgag aatgagataa aggacacgaa gttctttgga 480
ggagaggaga ttgggttggt agatattgct gctgtctaca tagcattttg ggtcccta 538

<210> 12947
<211> 579
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220143d02a1
<400> 12947

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acgatcacac tcacactcct cgtcgtcgct tgcccaaadc gcttatcgct cttcaacacc 180
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caacaaagct cttacaaatt ctccaagaaa aaacgaccga catgatgcaa actgcaattg 360
gatttgacat tgagtggaaa cccaccttca aaaagggtgtt cctcccggaa aggttagcagt 420
gatgcagata tgtggtgaca ctagacattg tcatgttcta catctaattc attctggaat 480
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<210> 12948
<211> 591
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220143d02d1
<400> 12948

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ctgccaaagc tgagttggag agagcattgc caaaagggtg tttggaaaga gtgaagaata 180
ggggagtggg gcacagtggg tggtttcagc agcagcttgt gctgaaacac tcaagtgtgg 240
ggtgctatgt atgccatggg ggctctagtt cagtgattga agctatgggc aatgagtgtc 300
aactggtgct gctgcctttc aagggtgacc agtttttcaa ttctaaactc attgccaatg 360
atataaaggc aggggtagag gtgaatagga gtgatgaaga tgggttcttt cacaagagg 420
atatactgga ggcattgaaa actgtcatgt tggaggataa caaagagcaa gggaagcaaa 480
taagagaaaa ccacatgcaa tggagcaagt ttttatcaaa taaggaaatt cagaacaaat 540
tcatcacaga tctggttgcc cagttaaagt ctatggctta gtcttgtctc t 591

<210> 12949
<211> 412

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143d03a1

<400> 12949

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 tggggtagtt caggtcgggtg aaaagactgg cacatacaag ctgctggaga catcaagcta 180
 cacctgagaa aatgtacaag atcgatgaac atgtagcctg tgctgtggct ggaatgtatg 240
 tgctgatgcc aacatgctaa ctcatactgc tagagttcag gtccatggct atgcatatgc 300
 ttaccaacat gcaatgcctg ctgagcagat ggatcaatct ctgtgcgata ctaggcaagg 360
 ttacacacag tctgctgggc gtcgtccatt tggagtctta ttactgtttg ct 412

<210> 12950
 <211> 507
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143d03d1

<400> 12950

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 aagctcagat cagcgatggc agcagcaacc cgcacttctc tgcggttctt cctctcagtc 180
 tccgtaaccc taactctcgc tcacctcgcc gcc- caaatt ccgaaggcga cgctctctac 240
 acgctgaaac ggagcctctc ggaccctgac aacgttctcc agagctggga tcccactctc 300
 gttagcccct gtacttggtt ccacgtcacc tgcaaccagg acaaccgagt cactcgagtg 360
 gatcttggtg actctaacct atctggacat ttggtacctg aacttgggaa gctggagcat 420
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<210> 12951
 <211> 574
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220143d04a1

<400> 12951

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 ctctagactg caacctttac tctggatggt gcacctcaaa gaaccgggtc tactcttcag 180
 cacatcctaa taatccgatt aagaaacat cattttccac atatcatcat cacaagaacc 240
 aacacatga atccgagatt cctcaacacc ctcttgacct tctaaccatc caagagttca 300
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 tcaactccgt tgtccttgaa gagccagaca aaaaacttgt cctcaaattg aaaaggggtga 420
 tctacccttg cctaggaagg cttccgtggt tgcataatgt aaggagact cacatgtgct 480
 cacggtggac cttcgaaacc gccangtggt gagccaggaa gccatactg ttcggtctcg 540
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<210> 12952
 <211> 510
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220143d04d1

<400> 12952

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 tcagtttggg catcatcatt tgctacatgc ataaataaag catgtatcta attagactaa 180
 aaaccaactg atgggatctc aagctgaatc acgagccttg caaacaggta aatcatcttc 240
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 aaacttgatg atacagtagg catgacagga tagtcctctt gacagggtat atgatggaac 360
 cctatttgtt accacaaaac aatgtcttta ttctcaattg gacgatccct gttggaccag 420
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[illegible]

<400>	12953
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<400> 12954

5937

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<210> 12955
<211> 570
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220143d06a1

<400> 12955

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atgaaccttg gcctaattga agagaccaa gtttctaggt ccttaccttg gagacgccct 180
gcaaatgttt tccgtgttaa agaagatgtc cgtccaatct tttgggcaaa tcgtccaaaa 240
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aagaagcttg ttgaagaatg ggcagttccc ttgaaagcat tgaagatata tatgagaggt 420
ttagactgta ttgtctggaa agttgagagc aatcctggtc agactagatg gtcttcagcc 480
gagacaagat ataaagagct gtgganagat tacacaaggg cttctcacat catagccagc 540
actgtcatgg gaaaagcaga tctctactgt 570

<210> 12956
<211> 648
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220143d06d1

<400> 12956

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ctactttcac agttaggaaa cgtcgaattc aaaggaagga gtaacttgtc ctttaagtcaa 180

002230" E F F E 560

cgtacagggtt actcatgcga ctcagaagaa tgaaaaaata aagatgtttg ggacaaagcc 240
cagaaaaata atttggtact tcaacttaga accacgtgta atatgaacca tcctactgag 300
aagaaaacaa aagaaaggaa aggaacatga caacgaacag aagtgcata actaaagaac 360
taataaataa taagctcatg tcagaaatct gcaaagacgg tgaaaagatc accattgatg 420
taatcattgt cgaccaaact caccaagaag tagctgcccc caacctcttc aaccaatttc 480
ctggatgcat caccctcagg gtacaagctt gcccatcctc ttgaccaaata ttcaaagtc 540
tcctccttcc atacattgaa gctgacagga tcaacaatgg ttgggtgaat tatctcctta 600
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<210> 12957
<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220143d07a1

<400> 12957

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aggccccca ctaccttggt ccttcataaa aacaacactt cctcctcttg cattcggcaa 120
ccaaaccatg cagcgcacgg cgacggcgac agatgaacca cggcggcgct ccggcgacgc 180
ggagggggag aaggcggtca aggggagcga ggtgatcggg gacacgtcac caaattactt 240
gaagaccatt tcggccctgg cgttgagggt cggaaccatt cattacaacg acgagtcgga 300
gctcttcgca atcttcttcc tctctctcca caaagcacta ttgcttttcg gttagctttt 360
cgtgctcacg ggaattcctg ctgatgaaaa gagcaaattc ggtcgaaaat tatccaggta 420
catatgcaag cacgtgtgcg cttacttttc catcacgctc catgtggagg acatgaaagc 480
ctttcat 487

<210> 12958
<211> 459
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220143d07d1

<400> 12958

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 aacagcaact tcttggcctg gctctattct ttctggatga acattctgct ctagagcagc 180
 tgctgaatgg actggttcta tctttcctgg atgaacttta cgctctaaag cagcagccgc 240
 tgctgactc cgtagggatt cattctctga ttgcagatta gctatctgat ccttgaggat 300
 ttcgaactct tcaaagagaa cctcattttt tgattcttcc aaagccttct ggcatagaac 360
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<210> 12959
 <211> 480
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143d08a1
 <400> 12959

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 ccaagtgaca cagatcagtg ggcttataca tacatacata cagggacccc aacagccctt 180
 tcccttttag ttttatctgc ttgcctatg gactgccttt ctatctgcaa ctgaatataa 240
 cactgctcaa ctctcatata cttcaatccc atgatattgg ccacctttcc cttattgaca 300
 gcactactac ttccttattc aacagacacc aattccagct gctcttttca ggcttcggaa 360
 tcaatcaatg ccgtgttgct agatacctgc ctgctgtagc taccctaaga acagccttta 420
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<210> 12960
 <211> 534
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143d08d1
 <400> 12960

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 acggcaacaa attttctttc cttcaaacac cacaaccttt taattgggga acagccctct 180
 accccccaaa atcaaataaa aaaccaatct taaaaaacag ggaaaaaaa aaactcccaa 240
 aaaaaggaaa aaaaaacaac caaacgggg actacttaaa aaaaagggc cccccaccc 300
 cctgggtcca caaaaacaaa aattccggag tacttgacac gcggaacccc aaccccgctc 360
 ccagaccaa ctacattggc tgcaaccca ccggcaaac cccccggaaa acctaaaaaa 420
 aggccccccc cgaaaaatct caccgcgat aacccccaac cccatccggg gaaaaaacct 480
 gcaccccccc ccaaaggaaa aaaccccaa aagttcccct aaaaaaatg cccc 534

<210> 12961
 <211> 317
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143d09a1
 <400> 12961

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 gaagaccagg acccccccaa tagggtgaca tgacccccga ccagaagggtg acctgctcac 180
 aagcaacatt acccgactac aaaagaaaag gtagcagcgc tcccagaaaa aaaaagggcc 240
 cgaactgaca cgaaaaagag ggcagacaaa ccgagggacg ggcgccaaac accgcgccga 300
 ccggagaacc ccacagg 317

<210> 12962
 <211> 527
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143d09d1
 <400> 12962

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 gggtcacagt tatgaacaaa tgtggcgctt tacatgacaa accctaacca ccatccacca 180

tgcagggacc caagttcaaa gaaacagtca gaattcattt cattgcaaaa agaaattacc 240
 caagtatcat aatccattca tttcaggggg aaaaaaggat tacttcagga tcaacctact 300
 gcgggtaaag ctaatctaag ttctcagagg tgaggtgagt tcaccaacca ccgccagaat 360
 ttccagaccc ccatccgttc ccagatgctg ctttctttgt ggcagatccc cagccagagc 420
 ttccttggtc accatcactt ggaccagcac caccacttgc ttgttcccag ccaccattgg 480
 cactggaact agtccacct tcaccggttc accaacaccc caacccc 527

<210> 12963
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143d10a1
 <400> 12963

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 tatcattatc aaatgtttga acatgaacac gaacacgaaa cactaacata aaaatccagc 120
 caacaaaact ggaacaagat gatagtttgt atctagctat taagataatc aatgtatcaa 180
 gcgcgatcac aaattcaccg gattaaaaaa aaaattcctc aaaagacacg gtaagatttc 240
 cccattgtac ttttcagata caagcacctg acattttgcc agttcttttt caacaaagag 300
 acaaggaaat taacactcag ttgaacattt tggaagattt gcttttcctc cataactaaca 360
 ttcccacag ctactcccat gcagagcacc ttcttaagtt gaaatttaac catggccttg 420
 gactcgtaa cctttgactc aagagtttcc tggtagaggaa caagtgtagg gaactttcct 480
 gccttgttga gaccaggacc caaaagacga ggaatctgc 519

<210> 12964
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143d10d1
 <400> 12964

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 aaatataagg gatacataaa aaaccccgct tgctaataac acctaggcaa ctgaacccaa 120

cattcaccac caaaattggg taggaaaaaa aaaaacctgt gtagggcgaa tattgacgcc 180
ctctatcaat aagtaaatat aacttatata agtaaaaaat gataagagga tcaaccctc 240
aaccagaat cctctgcaga atgaaaaatg aactgtaaga ggttgagaag gaaaggtaaa 300
agagaattat tgctggtgaa tgttacacag aagcaac 337

<210> 12967
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220143d12a1

<400> 12967
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tctagtttga aaccagatt caagacacct agtgtcaact tcatgtatga tttatgatga 120
taaataattt ttccttgtgc cttgcnaaaa aaaccaangn caaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaaaaaa aaaaaaaat aaaaaaaaaa 240
aaaaaaaaa gggggggggc ccccccttag gggcttcccc cccccggaaa aaaattccgc 300
ccggggccct gggggggccc cagttttcct ttaagggggg cgaataaaac ctgggctaaa 360
acggggccaa aagtgttccc gggggaaaat ggttttcctt aaacaatccc ccaaaaaatc 420
aagccggaaa gcttaaaggg taaaccggg gggcccaag ggggggcca ccccccttaa 480
ttggg 485

<210> 12968
<211> 533
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220143d12d1

<400> 12968
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tccattgaag aataattaaa atataaaaaa aatcataaac ttcgtactac tatcactaaa 120
caaatatcta atcatccaaa gcaagctcat ccgcagactt atgatgattc accttggccc 180

[illegible]

<223> Clone ID: jC-gmfl02220143e01a1

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tggagaccat	cgaactccaa	atcgggttga	aaaactacga	tccacagaag	gacaagcggt	180
tcagtggctc	tgtcaagctg	ccccacatcc	ctcgcccaa	gatgaaaatt	tgcatgcttg	240
gtgatgctca	tcatgttgaa	gaggcggaga	agataggact	ggactggatg	gatgtggaag	300
ccctgaagaa	gctaaacaaa	aataagaagt	tggatgaagaa	actagctaaa	aagtaccatg	360
ccttttttagc	ttctgaagca	gtcattaagc	agattcctcg	tcttttgggt	cctgggtctca	420
acaaggcagg	aaagttccct	acatttggtta	ctcaccagga	aactcttgag	tcaaagggtta	480
acgagtccag	gcgcatgtta	aatttcaact	atgaggtgct	ctgctgggag	agctgtgggg	540
atgtagtatg	aggaaaagca	atcttcaaat	gtcactgagt	gtattccctg	ctcttgt	597

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<223>      Clone ID: jC-gmfl02220143e01d1
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 tgctgccaga agctggcgaa gcggcccagg aggacaacct gctggacgcc tagcaccaat 180
 ccgggagctg caaggtcgtg gtggccatga cctaggccta caaagcggag cacggatgat 240
 ccgccaagcg tgttcaacac aacgcacgca gagcgcagcc tgaacgcca gctcggcccc 300
 tcccacgaac acggcgtgac caaattatgc gactgactc cgggcgactt aagccgtccg 360
 aatgttggcc gcgagccaat tgggtttccg aaggacgcc aaaacgcgca catgcaacct 420
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<210> 12971
 <211> 588
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220143e02a1
 <400> 12971

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 tggagaccat cgaactccaa atcgggttga aaaactacga tccacagaag gacaagcgtt 180
 tcagtggctc tgtcaagctg ccccatatcc ctgcgccccaa gatgaaaatt tgcattgctt 240
 gtgatgctca gcatgttgaa gaggcggaga agataggact ggactggatg gatgtggaag 300
 ccctgaagaa gctaaacaaa aataagaagt tgggaagaa actagctaaa aagtaccatg 360
 ctttttagc ttctgaagca gtcattaagc agattcctcg tcttttgggt cctggtctca 420
 acaaggcagg aaagttccct acacttgta ctcaccagga aactcttgag tcaaaggtta 480
 acgagtccaa ggccatgggt aaatntcaac ttaagagggt ctctgcatgg gagtagctgt 540
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<210> 12972
 <211> 571
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220143e02d1
 <400> 12972

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 ttggaagcta actcagagag aggcaaagat gttgggaatt ttcaagcaga agttgggttaa 180
 tgcaccaag gagctgaaca gtccagcttc tttgaattca tgcattaagc ctaagctaag 240
 tcatgaaatc ctgaaggatt tcatgtcctg caattcctcc aatgctttct caatgtgctt 300
 tgggaatgat gctttgctag cctattccac ttcatacaag cctccatta atcatagggt 360
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 gctcaacaag cagtatggac tatcaaagg aacaaatgag gccatgttta tcattgaagc 480
 atatcgta caatcgcgaca ggggtccata ccctgctgat caagtcctca aagaacttga 540
 aggcagtttt gcatttggat ctatgacaac a 571

<210> 12973
 <211> 554
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143e03a1
 <400> 12973

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 agctgcaatg aagcctgctt tcattgatat ctctgcaata gatttcaatg cagattatgg 180
 catgcggaga tcatttagtg aaggagatat aaagactcct ggtaatggta acatgaacat 240
 cgtccaatca ccccttgaga ggcccccttct tatcagcaac tgcaccagtg aggaacgctt 300
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 gtatgcttgc aggaaggcac ttgctgacag tcagccaaga atccgtggaa gatttgcaag 420
 gactgaagaa tctgatgtca agagggaatg aatgacttaa aactgattta gtaggaagaa 480
 aatagagttg agtagctata tctgatcaag ctatatggaa aaactcagca gtaatatgtg 540
 attagaactt atgt 554

<210> 12974
 <211> 515

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220143e03d1

<400> 12974

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 aaaccaata aaaacccaaa actccctttc ccaaaccaac tatatggggc caccccaatc 240
 tactgaacaa ttaaaaacca aatccccccc tttttatttt tatgccattt tccaacaaac 300
 ctttctccca acatggaaag tttccccga cctataaacc cgaaatcccc taaaaaacia 360
 agaaccacc ctaaaaactt gcgggcccgg tttttccaca aaaatttttag taaaacaacc 420
 aggaaccccc ccaataagac ctaaccccct attacggcag attcttccca aaagccctga 480
 acaaatataa cccccgacct ttattttccc cccc 515

<210> 12975
 <211> 564
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220143e04a1

<400> 12975

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 agctgcaatg aagcctgctt tcattgatat ctctgcaata gatttcaatg cagattatgg 180
 catgcggaaga tcatttagtg aaggagatat aaagactctt ggtaatggta acatgaacat 240
 cgtccaatca ccccttgaga ggcccccttct tatcagcaac tgcaccagtg aggaacgctt 300
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 gtatgcttgc aggaaggcac ttgctgacag tcagccaaga atccgtggaa gatttgcagg 420
 actgaagaat ctgatgtcaa gaggggaatga atgacttaaa actgatttag taggacgaaa 480
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564

<210> 12976
<211> 577
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220143e04d1

<400> 12976

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tttttttttt ttttcgggct tttgggtttt ttttttttct tttttgaaaa aaaaaaaaaa 180
aaccaaaaaa aaacctaaaa ctgcccttcc ccacccaaat attgggggca ccccggcaca 240
ccaccatgca tagaccaata cccccccctt ttttttcctt tcccattttc caacaaacct 300
ttttcccaac cgggacggga tccccccccc aaaagaccgg tacccccaca acaacaacag 360
cacccccccc aaaaacttgg gggcccggtt tatcccccaa aatttggcca caacaaccag 420
agcccccccc caaaagtctt aacccccacat aaccgcgggg gcttcccaac aaccgagacc 480
ccaaatcccc cccccaccga ttttcctccc accaaaaacc aggcaaacga ttacttcccc 540
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<210> 12977
<211> 562
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220143e05a1

<400> 12977

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acacacaggt atctagcana tgggtttctc ccaacaagaa ccatggctat tggagaatgg 180
gaaaccaagg gttttgacca aggagaccag gcatggccgt tctgcacaca gaatgtcctc 240
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cagaaacttt ctttcaaatt tgcaagaggt tattcttggc accaagcttt ccattctcat 360

ccctgctatt ccagctgcca tcgttgctga gtgctttggc tttggaagac cttggatttt 420
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<210> 12978
 <211> 674
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143e05d1

 <400> 12978

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 cacgatacct agtggagata tatagtaaca caataaatac aagagattct gcaaactgaa 180
 aaagggattc ttactaaagc aaactcaaac aagaacaact tccactcatt tggcatctac 240
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 accattcttc atctcaggaa aggacaagaa ataggccaaa gcctactaat taagcgctta 540
 aaactgcatt agtggctggt ttaagtgtga tgtagtaac atcagcttgg atattaaagg 600
 gtgttctttg tacgaagaag catgccccaa taacaatgta gcacagcatg agaacaaggc 660
 cttcatgtag tgag 674

<210> 12979
 <211> 431
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220143e06a1

 <400> 12979

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 ctcacacagg tatttgacca aatggcttac aaccaacaag aaccatgggt attggagagt 180
 gggaacacca agggttatga ccactgagac caggcttggc cactctgaac acagaaagtg 240
 ctccacctgt aggcgcatga aatcaagccg agctcttgta tcacaggctg catgagccac 300
 tctgagaaac tgacttgcaac attggcactg ggctcttctt ggaaacacgc tctgcattct 360
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<210> 12980
 <211> 547
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220143e06d1
 <400> 12980

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 aaaaagggat tcttactaaa gcacactcaa acaagagcaa cttccactca ttaggcactc 240
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 aatgcttctg cacagggcta acttttgttc ccccccttct ttatggatat gacaatgcga 420
 tcagactgaa ccaataacca atccatcgaa gtagaatctg attttgggtt tggatcgata 480
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<210> 12981
 <211> 358
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220143e07a1

<400> 12981

ctagatttga ggagcctctt gaaaattatt ttcaggatgc ctattgactt gagatgaaac 60
 tggttccttta tgaagcaaag caacagacag atgctatcag gtgaacggac cttcttgaac 120
 gtgtagttaa cgctctccct cacacaactt gcatgagaca tggaggggga tgaaccacc 180
 ttaaggacta tcttgatgac atacaagctc aagacacatg ctgatgatag tgaagggtaa 240
 actacatcca ctgccgattt aaagtattat attggggatg actcggacca tgttatggtg 300
 ccttagcctg ccaaccggga tcgggacaac gtcatgagtc taattggcaa gctcgacc 358

<210> 12982

<211> 657

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220143e07d1

<400> 12982

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 anaaaccgaa gcgacggggc ggggggtcagc tctaaacaaa ttcatttata cgatgaaccg 180
 gtttataaat ttgttaaatt ggaaccgttc taaaaaacta acgagtcgca cactaagcat 240
 agcaatacta tcaatatgaa atgattcatt tcatttttta gtcgattcaa tcttataaaa 300
 ttgatcattt tggagaaata aaaatcgagt aatttttcat tttttgtttt ctaaaaaaaa 360
 atatagcaca ttaagataa aatatagcac atttaagata aagaataata tatttttctt 420
 tatttagaaa atatccaaac tttgatccct aaaaccccat aaatagttcg aactgtatag 480
 caacaataat cgattttcgc tcgaatgggt tntagaggaa ctctaccttc tctgatccat 540
 tcaacacgtg caatttcttt tccgtcgata cgctctgcaa tttgtacttg aacctctttt 600
 gtaccgcctt gttcagttaa ttcaatagct tttttcattg ctttacgaaa cgaaact 657

<210> 12983

<211> 559

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143e08a1

<400> 12983

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aaagttctgg actgtcacct ttgcttcctt tatataccag atagggatga ttagtttgac   60
cctatcggca gtgctaccac agtttaggcc acctccctgc aagggtgaag aggtgtgcca  120
gcaagcaagt gcaggacagc tggcaatcct ctacatctca ctccctctcg gggcactcgg  180
gtcgggtggg atccgaccct gcatcgtggc gttcggggcg gatcagttcg acgagtctga  240
tccaagcag acaacaagga catggacctt cttcaactgg tactactttg tcatgggtgt  300
agcaattctt gtggctgtga ctgttttggt gtatattcag gacaatattg gttggggaat  360
tggccttggg atccctacca ttgcaatggt cctctcaatt attgcattca ttgtcggata  420
cccgttttac cgtaacttga acccgctcgg gagcccgttt acccggttag tgcaagtggc  480
tgtggctgca tttcgtaaga gaaaggcccc aaatgtgtca caccctagtt tactctacca  540
aatgatgaa ctagatgcc                                     559

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<210> 12984

<211> 592

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143e08d1

<400> 12984

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tctttttttt tttttttttg tttttacttt ctctttagat ctagataatc cgaagcgatg   60
cgttggttat tagttctttt ttaattcatt tatacgatga accggtttat aaatttggtta  120
aattggaacc gttctaaaaa actaacgagt cgcacactaa gcatagcaat actatcaata  180
tgaaatgatt catttcattt tttagtcgat tcaatcttat aaaattgatc attttggaga  240
aataaaaatc gagtaatttt tcattttttg ttttctaaaa aaaaatatag cacattttaag  300
ataaaaatata gcacatttaa gataaagaat aatatatttt tctttattta gaaaatatcc  360
aaactttgat ccctaaaacc ccataaatag ttcgaactgt atagcaacaa taatcgattt  420
tcgctcgaat ggtttgtaga ggaactctac cttctctgat ccattcaaca cgtgcaattt  480
cttttccgtc gatacgtcct gcaatttgta cttgaactcc tttgtaccc gcctgttcag  540
ttaattcaat agctttttttc attgcttttac gaaacgaaac tctattcttt aa       592

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<210> 12985
 <211> 429
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220143e09a1

 <400> 12985

aaaaacccca aattttttcc caaaaataaa aggccccccc cccaatcaaa aaaataaagg 60
 gggaaaaggg ggaccccccc aattgggggg accccaccca taaccaaaac ccccccttcc 120
 caagaaaaac cccccgaaa aaggggcttt caaaattttt gccccccccc attttctaata 180
 caaacgccc ccttgaaccc cggggacaaa aacaacaaaa cacctttgaa ccccggggga 240
 aggaaatatg aaccctttcg gggcctcccc ctattgtctt gaattccaaa gggggggtct 300
 ccaaagcctt cccccctttt tattgggggc cgatatgca aaaccgcccg cccttttacc 360
 cattttgggg gacgcaaaa gaagggcccc tccggggggg ggacaacccc ccgggtatga 420
 ggggcccccc 429

<210> 12986
 <211> 591
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220143e09d1

 <400> 12986

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 agggggccgtt ttttagaaaa gaaaacacag gtatgtaaata gacataatgc aataaataga 120
 attccgtatt acacttttaa caattattta gtcgaataat aaataactga gcggtggcgt 180
 ctagcaagca gaaagcaaaa ataagtttag aaaacaatta attagtaaata tgcaggcaat 240
 agagaagcat ctacatcttt caccattatt ctttataatc aacctcacta ccttatatta 300
 tatacacgtt ttcaatgtca gcaatctttg gccagtcttc gcctccgggt tcccggcaac 360
 gttgattgag caacggacaa tagtaagtcc tcaaagttga aatggatttg ggcagaccct 420
 cctctggtaa gcattggagc ctggggcagt tagtaagaaa caatgtcttg agagaggaga 480
 ggtggcagag acctttgtag tccaggcttt ttagatctgg acagttcctg atctctagac 540

aaacaagaga gtgtggcagt acaccttcgt caggaagaca ctaacatcca c 591

<210> 12987
<211> 414
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220143e10d1

<400> 12987

cacagaatgc taaaaattgt gtctcggggt gataaatgta tacatgacaa agaacttcaa 60
aatgtaaag aggcaatgaa tcagtcaccc ataacatagc acaataggta acaacaacaa 120
aaaattacta aaatacaacg tataccattc ttgtaaagta gctagacagt aaatacaata 180
aatgcactaa aatcaaggaa atgtgctgca gaaaccagac tccagatata gtcacaccta 240
aatgtttgct gcaaaattct taactagaag ctcatTTgaa ggttcccata ccgacaccag 300
tctcgccgcc agcataaggt tggaagcttt cccctgcctt tgagtagttg atatagtaga 360
attcagagat tatggcagtg aagaaaacag gaccatcttc ggggagaatc ctcc 414

<210> 12988
<211> 317
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220143e11a1

<400> 12988

ggtacagacg aatcaacact gagtgagttt tgaaaagttg caagatgcta tgacatatat 60
ggtagtttga aaccagatt caagacacct agagccaact acaagtatga ttgaggctga 120
tgaataacat ttccttgggc ctgaaagaa aaaccactgc agcgaagtac aaggaggaaa 180
acaacccac agcatagtga gaggaggaaa aaacagaggg aacaacaaag agtaaacaca 240
acaaaaaaag aaatgggggg ggcccaaac atcctctatc atggctgcgg ggataatgaa 300
gggcctggac ccggaag 317

<210> 12989
<211> 617
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220143e11d1

<400> 12989

tctttttttt tttttttaga gtttccaatt tcagatttta ttagattgaa aagcgtaact 60
 ggacattgat agaaacagta aatcctttat ctgatgaaca gagttaccac ccctacaatc 120
 cccattccag tgatgactcc cctgccaat tcaattacat tgccccctcat gcataccttt 180
 tacagtctcc actaatcatc atatagcatc tcaccagcag aaaggaaagt ctactgtctg 240
 gctgcgacaa ctggcccttc cacctgatat atcatctcac caatttgaaa atcagtaaaa 300
 gtaattggaa gtggagagct gaatacacia gattatgcat gcaagaaata ctggaaacca 360
 agtgggatga aaattaaaca gaaattaatt agattaaaag acaatagaag cgcttcctac 420
 atgtaaataa aggacattaa gtgagcacga ggatgattcc ctgagattat taccctaatg 480
 gaatttaatt acaatcttgg tggcctccta tatgactcta gttttaaaga tattctatag 540
 gacaactacc atttggttca gtgaaatttc gttcacatga gttctaaggt taactttaaa 600
 gactttgaga atttatg 617

<210> 12990

<211> 598

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220143e12a1

<400> 12990

gcccccccc aggcccccg tgccccggg ctgggaaaac ctnnnatnnt gtangnctc 60
 cnggacaatt acccgagcac ggcaaacggc tcgagggtat ggctgccgct aggaggaaac 120
 agattccgaa gcttgcgctc tcgctcggtc tcgctcagca aatgggggat atgattgaag 180
 agttgatcag caaagggcag cagcttgatg cggctcactt tacatatgaa gtgggtcttg 240
 ggaaaagtcc ctcccgctcc cttgttgaag ctttactca aggatgctaa gaaagatgcy 300
 gcttctatct tggaagatcc taacaatgca ggccgagctg cgtacctagc tgcaaggaaa 360
 gagcagtctg cactcagggc tgtgattaaa tgcattgaag aatacaaact tgaggatgag 420
 ttcccaccag agaatctgaa gaagcgactt gaccagttgg agaaggtgaa gacgggtgaag 480
 accgagaaaa ggaaaccggc tgctgttctt gccataaga gaactcgagc aagcaacagc 540

gtgatgctca gcatgttgaa gaggcggaga agataggact ggactggatg gatgtggaag 300
 ccctgaagaa gctaaacaaa aataagaagt tggatgaagaa actagctaaa aagtaccatg 360
 ccttttttagc ttctgaagca gtcattaagc agattcctcg tcttttgggt cctgggtctca 420
 acaaggcagg aaagtccctt acacttggtta ctcaccagga aactcttgag tcaaagggtta 480
 acgagtccag gccatggcta aatttcaact tatgaaagtg ctctgctggg agtagctgtg 540
 gggaatgcta gtcatgagga aaaagcaatc ttccaaatgt tcaactgagt 589

<210> 12993
 <211> 591
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143f01d1

<400> 12993

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 aagcccagaa agcaatatgc gggcttgaat ctggaatgac tggaatcctc ttgaaagaag 120
 actatacaga tgactggaga gatataattg aattatctga taggctacat gaagggtgaca 180
 tgctcacttg taaaattaag tcaatccaaa agaataaggta tcaagtcttc cttgtatgta 240
 aggatagtga aatgagaagt aatcgggttac agaataaccg tgatattgac ccctattacc 300
 atgaagaccg aagctgtttt cagagtgatc aagacaaaagc taggaaagaa aaggagcttg 360
 caaaaaagca tttcaagcca aggatgattg ttcattccacg ctttcagaac ataactgcag 420
 atgaagcaat agagttcttg tctgacaaaag atcctggaga aagtattatc cgtcctagtt 480
 cagcaggacc ttcatatctt actttaactc tcaaaattaa tgatggagta tatgcccata 540
 aggatatagt tgaagggtgga aagaacacaa ggacattaca agcttactcc g 591

<210> 12994
 <211> 559
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143f02a1

<400> 12994

gagaactctt atcattcttt tttccacttg acattgcoga cgccacacaaa tacacaacct 60

taactttccc acaacactac ccattccatca ttcgttttct ctctagattt tttcagttag 120
 ttattgctgt cttctttttg tgtgtgcaa caacacagaa agagagagaa agacatggct 180
 ctgaaccaat caaaggccgt gttgttgagg gtgagtttg tggtggtggc gctgtgtata 240
 gcaggataca tagtgggtcc ccctctctac tggcatttcg ttgcagtga caaccactct 300
 tcatcttcta cttgtgcacc ctgcatctgc gattgctctt cacaacccat tctttctatt 360
 ccacaaggac ttagcaacac ttccttcgga gattgtgcaa agcctgaccc agaagtgagt 420
 ggagacactg aaaagaattt tgctgagcta ttgacagaag aactcaagct tcaggagagc 480
 caagctgtgg aaaaatcagc acgtgctgac atggcattgc ttgaggcaaa anagattgca 540
 tctcagtatt cagaggaag 559

<210> 12995
 <211> 609
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220143f02d1
 <400> 12995

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 aagcccagaa agcaatatgc gggcttgaat ctggaatgac tggaatcctc ttgaaagaag 120
 actatacaga tgactggaga gatataattg aattatctga taggctacat gaaggtgaca 180
 tgctcacttg taaaattaag tcaatccaaa agaataaggta tcaagtcttc cttgtatgta 240
 aggatagtga aatgagaagt aatcggttac agaataaccg tgatattgac ccctattacc 300
 atgaagaccg aagctgtttt cagagtgatc aagacaaagc taggaaagaa aaggagcttg 360
 caaaaaagca tttcaagcca aggatgattg ttcattccacg ctttcagaac ataactgcag 420
 atgaagcaat agagttcttg tctgacaaaag atcctggaga aagtattatc cgtcctagtt 480
 cacgaggacc ttcatatctt actttaactc tcaaaattaa tgatggagta tatgcccata 540
 aggatatagt tgaaagtggg aaggaacanc aggacattac aagcttactc cgaattggga 600
 agacactaa 609

<210> 12996

<211> 573
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220143f03a1

 <400> 12996

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 catgcaatta gcaaagagtg tcagctcagg aagtttgagc tcaatggact ggatgcgtgg 120
 agctgcaatg aagcctgctt tcattgatat ctctgcaata gatttcaatg cagattatgg 180
 catgctggaga tcatttagtg aaggagatat aaagactctt ggtaatggta acatgaacat 240
 cgtccaatca ccccttgaga ggcccccttct tatcagcaac tgcaccagtg aggaacgctt 300
 ccaaaagctc tccagatata ggaataagaa gacaaagagg aattttggga ggaaaatcaa 360
 gtatgcttgc aggaaggcac ttgctgacag tcagccaaga atccgtggaa gatttgcaag 420
 gactgaagaa tctgatgtca agaggggaatg aatgacttan aactgattta gtaggaagaa 480
 aatagagttg agtagctata tctgatcaag ctatatggca aaactcagca gtaatatgtg 540
 attaggactt attgtgngag tctctgtttg ttg 573

<210> 12997
 <211> 462
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220143f03d1

 <400> 12997

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 acataccagt cggcggccgc cctttttttt ttttttttta tcctttatct tttctttttt 120
 ttttctttct ttttttctcc gggccctggg tttttttttt tttccttttg gaacaaaaaa 180
 aaaaaaacca aaataaaacc caaatgggcc cttccaaacc caaatatttg gggccccccg 240
 ggccacccca catattagac ccaagccccc cccctttttt ttccttccca tttttaaaca 300
 aaccctttcc ccaaccggga cgggtttccc ccactaaagg accgttacc ccataacaaa 360
 aactggaccc cccccaaaaa cttggggccc cgggttaaacc cccaaacaaa cgcctaaaca 420
 accagaaacc cccccaaaaa gcccaaaacc caaatcccg gg 462

<210> 12998
 <211> 540
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220143f04a1

<400> 12998

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 tcttgatggtt tttcgtgggc tcaccgtcgc gcttatgata cttggtgatg atgctggcgg 120
 actcattcct gcaactcaatc attcaccatg gaatgggtta acgctagctg attatgtcat 180
 gccatttttc ctatttattg ttggtgtttc gcttgcactc acatacaaga aactgtcttg 240
 cggagttgat gcatctagga aagcaagttt acgggctcta aaacttcttg tgtaggcct 300
 tttccttcag gaggttattt ccattcgggt gaatgatctg acctatggag tggatttgaa 360
 acagataaga tggatgggaa tactacagag aattggggta gcatatttgg ttgccgcact 420
 gtgtgaaatt tggctaagag tgatgatact gttaattcag gaccatccct tgtaggaag 480
 tatcgggtacc agtgggctgt ggctttgatt ctttctttcc tttatctntg cttgctatat 540

<210> 12999
 <211> 590
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220143f04d1

<400> 12999

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 ggcgccgcc cttttttttt ttttttttga catttctttt ctaattttta caataaatta 120
 aaaaatctaa ggctaaattt tacatcaata tcgtgtccaa tggttactct cttgaaatca 180
 tttcaaggat atgaagtaaa agtacacatt atattgcagt ggtgctatta taaacaaaag 240
 ctgctttcca tatatagaaa ggttatgcca tcaagagata tagcgaactc taaactatat 300
 ccatcatcca tgcagggtgac gtcacaaaga gattagagga atatgatata cccgttcttg 360
 ttcttgatca aaagattagc tccaaaactc gggttaataat caataaacac cgcgtggtag 420

ccaattttctt ttacagtaaa acatgtctca ctgtcttact gcatataatc tttatccacg 480
 agcatgtgta tgtgcctctc ttcaagtacc aactccaatt aacttgagaa tgttattgtg 540
 aggacttccc ccaataaatc ctntgaggaa aattggaaaa acattgcaag 590

<210> 13000
 <211> 365
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143f05a1

<400> 13000

gactcatggc accctagtta gagtttaacc ctgtggtctc attctttatg tctgtgtgca 60
 tgacatcaca attcgcatag actgagagtc ctttttctca ctttggtatc caaaaatgta 120
 acacacacag ggctctaaca aatggcatat caccaactag aaccatgtgt attggagaat 180
 gggaaaccat gggcatgac cacggagacc aggcttggcc gctctgacac agaatgtcct 240
 tcaactatgt gcgcatgaca gctagccgga ctcttgetca taggttccat gtgccactct 300
 gagaaactga cctgcacatt ggcattgacg tcttattgac gccagactct gcattctcat 360
 ccctg 365

<210> 13001
 <211> 527
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143f05d1

<400> 13001

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 ccagtcggcg gccgcccgtt tttttttttt tttaaaccaa aatttttcaa attttgacaa 120
 cccacaaaac ccaaaggga acggggtaac acaagaaaca caaaagacc ggcaaacaga 180
 aaaagggata ctactaaag cacactcaag caagaacaac caccactgag aaggcaacta 240
 ccgaaggac acaagaccaa aagcagcacc actgacagaa cacacgccc tatgacgcac 300
 cagaagacac agcagtggca catttggaac agcagcctag agcaactcaa aacaacagca 360

acgctaagga cagggcacaac cattgagacc accctacaag atggatatga caccgcgaac 420
 cgacagaacc aataaccaac ccatcgaagc agaaagagaa tctgggtatg gaccgacacc 480
 accatgcatc atcgcaggaa aggacaagaa agaggccaaa gactact 527

<210> 13002
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143f06a1

<400> 13002

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 tatgttgccc tgctcccctc gggctttgct attcttcctg atgggcctcc tgcattaaat 120
 ggtggggcca tgcataaagt tggatctgga ggttctctac tcacagttgg attccagatc 180
 ttagttgatt cagctccaac cgcaaagtta tctctgggtt cagtggccac tgtaaacagt 240
 ttaattaagt gcacagttga aaggatcaaa gttgcagtca tacgtgacaa caacaacacc 300
 tgatttcaat tcagaacttt catatacatg tcagaagagc aaattaaggt agagaaagta 360
 atgatcgagc ttggcgtggt gcctatttcg tttccaaaac aagggaaga agtcaatgaa 420
 cgcacctcgg agtatcactt aaacgtagga gtttgacaaa cttcagggtc ggtattgact 480
 ttcacttatg acttgaagac taaaatgggt ccatccagct gtagtatttt aact 534

<210> 13003
 <211> 617
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143f06d1

<400> 13003

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 gggtaaccac acttaggaaa gtttgctcaa gcctacaaat actactcaa aattctacgc 120
 taaaataaat agcgagtccg aaatttgagc tttttctaag ttaaaatact acagctggat 180
 ggaaccattt tagtcttcaa ttcataagtg aaagtcaata cccgaaccta agattcttca 240
 aactcctaac gttgaagtga tactccgagg tgcgttcatt gacttcttgc ccttggtttg 300

cttataaaat tgaccattct ggagaaatca aaatcgagca attttttcatt ttctgggtcc 360
 taaaaaagaa tatagcacat ttaagataaa atatagcaca ttcaagatac agaatgctat 420
 atgggttcttt attcagaaaa tatccaaact ttgatcccta aaaccccata aatagttcga 480
 actgtatagc ctcaataatc gatttttcgct cgaatgggtt gtagaggaac tctacctttt 540
 gtgatccatt cgacacgtgc aatttccttt ccggcgatac gtcttgcaat tctgacttga 600
 actccttctg tacccgcctg ttcagctcaa tcaatagcgt ttttcattgc tttacgaaac 660
 gaaactct 668

<210> 13006
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143f08a1
 <400> 13006

ggaaatgggg ggagcaacgt ttgatctctt tttatacgaa atggggctga ttgacatcgc 60
 ctccattgcc gctgccccac agggtaggcc ccgcgccatc caccttgcat gggctaacct 120
 catttgtcaa gccggacatc ccgagaaaca gataatggaa ccggcgataa aaggaacggg 180
 taatgtgggg aacgcagcca acgaagcagg ggtggagccc gagcaggcca cctaacttga 240
 tcccacgctg acgccaagga ctaagtggcc cgctgacaag atctacggag acgagggtgg 300
 gacggacctt gaatactgca ctcaaaaggg gtagaatcat gccattgcag agactctagc 360
 agagcaagcg ggccgggaca ttgcgaagga gacaggaatt gatgctgtca 410

<210> 13007
 <211> 558
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143f08d1
 <400> 13007

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 tttgaagtct cacccttttg tctggagtaa actaaagaaa gcatacactaa aatctttcag 180

aactagtagt ccatataggt tgaaatttct gtttcaatta ctttggcaaa acttcatttc 240
 agtgtatata tacaacaag ctactccaat tcacctgtgt accactagct agcgactctt 300
 ctcttctca acttcttcaa gcagtgttg tagctctgt tctgttaagg actctaaccg 360
 cttctccatc actttgcttt cataatcacg tagttgctgt gcatatgtca tttccttggt 420
 tgaaactctg aagatatatg ttgagatcca cccaactgta aggcccaaaa ccagcactag 480
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 gccaatgcc a gtaaaagt 558

<210> 13008
 <211> 572
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220143f09d1
 <400> 13008

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 aagtgaagc cactgctggt gatactcact tgggaggtga agattttgat aacagaatgg 180
 tgaaccattt tgttcaggaa ttcaagagga agaacaagaa ggatattagt ggaaatgcc 240
 gagcattgag gaggttgaga acagcatgtg agagggccaa gaggactctc tcttccactg 300
 ctcaaaccac cattgagatt gattccttgt atgaggggtat tgacttctac acaaccatca 360
 cccgtgcccg tttcgaagag cttaacatgg acctattcag gaagtgcag gagcccgtgg 420
 agaagtgttt gcgggatgct aagatggaca agagcacogt ccatgatgtt gctcttgctg 480
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<210> 13009
 <211> 357
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220143f10a1
 <400> 13009

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 gaataacaat aaccccccaa aacgaaaaca tgccccaga acaatgatta aactcaccaa 180
 aaacagtatc accccgctaa accagaaacg ggacaagcca cccaagacaa aaaaaagtgc 240
 ccaactacca ctaaaaaaca ggtgaacacc caaattgtag ccggccaccc caccgccccaa 300
 accgaaaacc accaaggcaa gaccattttc cccagggttt ccaccacac accgcaa 357

<210> 13010
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143f10d1
 <400> 13010

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 gtgcccctac atgactaagt aataatactc aggatcttat ttcataaaaa ttaaggagca 180
 acttagaggc ttgatttgag agcttaatca tagtacaagg gatttaggcag cttaaaagtc 240
 ctagtccctt tgttgcttcc caggagggtc ctccattggg ctccaacggt tccaatgatt 300
 ctgtatccct ccttctccag cttctctctc tcagctgatt tgtattcaaa tgataactta 360
 ccagagtact cagatggatc cctgagaatt aacttctccc atgtgttgaa tccaacctcc 420
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<210> 13011
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143f11a1
 <400> 13011

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agcatcagtg acccaggggc gccagggcag agcctgagac cagaggaacg aggctgtgct 180
 gcatgcaagc gcgagcagc accctgacgc cctggaggcc cgagaagcct gcaccaagac 240
 caacatggag gaggttacac ggagagaaca caaccaaagc gcacaggggc actgagaagg 300
 aagagcgtga cgcacgcaag aacaaagggtt gcgacacgca tgacgagaga cgagaggctg 360
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<210> 13012
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220143f11d1
 <400> 13012

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 tcctacgcct tcaactaaga actcattaac acgaatactt tgggcaccta attaaagcgg 180
 aaggaagaa atgacagcgt gcgtgtatta ataattacat ttggtcgtag catcactttg 240
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 aagagactca cgtgcaatac aatcttacgt aatttgctag gactagaccg atgcttatct 360
 gattcagcaa cttcccccat atcttctaga gaagaagaac cgacattgta aagg 414

<210> 13013
 <211> 527
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220143f12a1
 <400> 13013

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 acccaagacc gctccaacca gaccatcgcc tcggacctcg atggcaccct ccttgtctcc 180
 cggagtgcct tcccctacta cttcctcgtc gccctcgaag ccggcagcgt cttccgagcc 240

ctccttctct taaccttcgt ccccttcgtc tacttcacgt acttcgtcct ctccgaaacc 300
ctagccatca aaaccctaatt cttcataacc ttcgcggggc ttaaactaaa agacgtcgag 360
ctcgtgtccc gctccgtgct gccgaggttc tacgccgagg acgtgcaccc caccacgtgg 420
cgcgtgttca acgcgttcgg ggggaggcgg tgcattgtca cggcgagccc ccgggtgatg 480
gtggagccgt tcgcgaagac gtttctcggc gcggatacgg tgctcgg 527

<210> 13014
<211> 578
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220143f12d1

<400> 13014

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tgtcacgtgt tctacgacgg tccttttacg accgatgtag aaagctttgt taactgcagc 180
agcactagat gatatcccca cccaattgct ccctcgtggc atagtcgtgc ttgttcttcc 240
tgactccctt catcaattga ccaccaacct aataatctag aacctgatg caagaaccca 300
aagcaatcat gagctcttga agaaaatata aaatatattc ctccaccaac tccacttcgt 360
agcagtaaaa gtgaaagaga atcaccttga ttaatgccta acatgcaatc tgcaaactct 420
tcaattagct gattacttaa ttcaattgac tattgtatgt ataataagac tagataccta 480
acagtaaaag tgtaacaata tactagtgc aagcattttc aaaacaatgc ataaacaaac 540
attatatgaa gtgaatattt ggtagataat ttcctacc 578

<210> 13015
<211> 446
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220143g01a1

<400> 13015

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gctagaagtg gcctatctac atcaaagaag cttctaaagg tgctaaatca aatgtgcctt 180
agagagcagc aaacatcaag catgcctctt gtcttggtc tggggagtga gcttgatcga 240
gtgtgccacc aaattgatca gctgatccac gaacagcgct cgaaccagaa cgatgttgag 300
tttgtcatga agcattttgc agaagagaag gctgcttgga aaagaagaga acgagaaagg 360
attcatgatg ccatataaca cgtggctgaa gagcttgagg tggagaagaa gttgaggagg 420
caaactgaaa ggctgaacaa gaagat 446

<210> 13016
<211> 608
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220143g01d1
<400> 13016

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tgctcacttg taaaattaag tcaatccaaa agaataaggta tcaagtcttc cttgtatgta 240
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agacacta 608

<210> 13017
<211> 383
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220143g02a1
<400> 13017

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 gctagaaatg gtctatgtac atgacagaat cttctaaagg tgctaaatga actgtgccgt 180
 acagagcaac aaacattcag catgcctcct gacttggctc tggcgagtga gcctgaccga 240
 gtgtgacacc gacttgatca gctgatccac gaacaccgct cgaaccagaa cgacgtcgag 300
 tatgtcatga accatcttgc ataggagaag gctgcttggc atagatgaga acgagaatgg 360
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<210> 13018
 <211> 659
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220143g02d1
 <400> 13018

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 ttggggaatt ttagcaggac tggacctaaa aagggccctc cggggcggac ccaaaaagag 180
 agagggacta tccgcggtgg ccagacacgc cagaagggtg gagatcggtg actgaggaat 240
 acagcgacaa agaaatgggt ctagcttgca agctcatgga ggtgttgtcc gaagcaatgg 300
 ggatagagaa agagggttta agcaaagcat gtgttgacat ggaccagaag gtggagggtg 360
 attactaccc caaatgccct caacctgacc tcaactttgg cctgaagcgc cacacggatc 420
 cgggcactat caccttgctg cttcaggacc aagtgggtgg acttcaagcc accacggaca 480
 atggccaaac atggatcacc gctcagcctg gggaggctgc cttcgtcggc aatcttggag 540
 atcatgctca ttatctgagc attggaagg tcaagaatgc tgaacaccaa gcggtggtga 600
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<210> 13019
 <211> 517
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220143g03a1

<400> 13019

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tgttttctcag ctggaagaaa actgggaagg gaaagagacc cggaaagggt gggaaccgct 180
tttggaatc cattgggctt ggatttaaga ctcccaggga agccatcgaa ggaacctaca 240
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tcaagaagta ccagaggtag gagaaaaggc actccaatc tctgtctcat ataccacctg 420
ctttccgtgt gaaggaagga gatcacgtta ttattggtca atgcaggcca ctttctaaga 480
ctgtgagggt caatgtgtng aaagtgatcc cagctgg 517

<210> 13020

<211> 616

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143g03d1

<400> 13020

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gaacgaaacc tcaaagaaga gccaaaattg acaagggttt catatttggt atcatccaga 180
aaagaaatca gatataataa ttaataaggt aacatttatc ttcaataaaa actggaaatc 240
aaagctcaca ttccagtaaa agccttcttt gcaccgctag aagatccagc tgggatcact 300
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ttcatcttag cactgtgaca tgttccagcc aagatacggc cacggatgga aacattgcca 540
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ccaagcccaa tggatt 616

<210> 13021
 <211> 482
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220143g04a1

<400> 13021

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 tgtttctcag ctccaagaaa actgggaagg gaaagagacc cggaaagggt gggaaccgct 180
 tttggaaatc cattgggctt ggatttaaga ctcccaggga agccatcgaa ggaacctaca 240
 ttgacaagaa gtgcccttc actggcaatg tttccatccg tggccgtatc ttggctggaa 300
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 tcaagaagta ccagaggtag gagaaaaggc actccaacat tctgctcat atatcaacct 420
 gcttccgtgt gaaagaagga gatcacgtta ttattggtca atgcaggcca ctttctaaga 480
 ct 482

<210> 13022
 <211> 678
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220143g04d1

<400> 13022

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 cagaaaagaa atcagatata ataattaata aggtaacatt tatcttcaat aaaaactgga 240
 aatcaaagct cacattccag taaaagcctt ctttgcaccg ctagaagatc cagctgggat 300
 cactttcaac acattgaacc tcacagtctt agaaagtggc ctgcattgac caataataac 360
 gtgatctcct tctttcacac ggaaagcagg tgatatatga gcaggaatgt tggagtgcct 420
 tttctcgtac ctctgggtact tcttgataaa atggagataa ttcctcctaa caataatagt 480

cctgttcac ttagcactgt gacatgttcc agccaagata cggccacgga tggaaacatt 540
gccagtgaag gggcacttct tgtcaatgta ggttccttcg atggcttccc tgggagtctt 600
aaattcaagc ccaatggatt tccaaaagcg gattccaccc tttccgggct ttttcccttc 660
cagggttttc gagctgag 678

<210> 13023
<211> 597
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220143g05d1

<400> 13023
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gtgacagtga ctgcattcct ccatgactcg tgcattgtca tgaccaagag aggcttatag 180
tcttcatttt acatatggtt gatactagta agcaacacct ccatcagttg tagagctgag 240
tctaccattc attttcattg gattagcgtc tcataatcct aagagcttca aaagttgcat 300
atacagacag cagggtataaa actctaaagc ctagctacag atagattcag agccccctga 360
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gggactgatt cctgtctgag ttttgatggg cttctgtcca accaggttca tatgcttcta 480
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<210> 13024
<211> 573
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220143g06a1

<400> 13024
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tttcgtatca atagaagctg gaatcgtatc gaaatcgcgga gatacggatc gtgaatcatt 180

attgtagaag tctctgggtg atggctgggt cagaacctgt aagtgcagag ggagagagta 240
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 tatacacgga tgaagatgaa tggctctagt ggaagaaatt aagtgatagt gtgcttcaca 480
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<210> 13025
 <211> 684
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143g06d1
 <400> 13025

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 gtaaaggaat aaaggggtcaa aacaggggta acttttttgt aaatttttac ccaaacaatg 180
 atgtttctgg agtaaataata gaatttgaag tctaataatta tggcagtgcg ctgtagcacc 240
 cgaaaagctg tatttagacc actattgcag ccgctacagc ggttattgaa aatcgctcag 300
 cgatttcgac ttccatagta actcagggct gctgcgctcc gttatcctgc tatagagtgc 360
 tattgactac catgaatggg ggcgtaggac tacccttca ttcaccttaa gggtaccaca 420
 gctctaccta tgacaacagg taaagttcat atagatggat agtagtataa aatgaagttg 480
 agattcacat aatgcacaag gaagatgatt tgccaagatt ttttcatgt tcatttcatg 540
 cttaccgttt gggtattaac aggtttgcat tttgtagcgt taaaagggtca ttatctgcat 600
 ataactctgat ttttctgca taaaagttc atcttgtgga tgcggtctga ttgctagcac 660
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<210> 13026
 <211> 351
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143g07a1

<400> 13026

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tcgatcctgc ctttctaacc acccaatggc aggcgcgcct gacaaagcgc gcgacaacat  180
accacacaaa acttgccac accgtggagt ctgtagggcc ccccatcgt ggggtcctgg  240
accggccac agcaaccct aaggcaagg gatgccacg ttaccttggg gaaggcacc  300
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<210> 13027

<211> 588

<212> DNA

<213> Glycine max

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<400> 13027

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gcaaaaaaac aaaaaccagg gggcaaaggt aagcctcacg gccgcacaac cccaagccc  180
caagcccaac cgggggaaca ccaaccccca accaacaaca aaccaagaaa accctcctgg  240
ccagctccaa ttaattcaaa ctcatttgct agaagttgaa aaaaaataaa atacagcaca  300
tctaagtccc cttegaattc actgctaaga aggaatgata aataactaaa agaaaacaac  360
tgaaagccaa agactccaaa agtttttagta ggcatagcc ttgacaaaca ttcccttctt  420
ggcctcttca ctctaccct cagcagagta tctccaagt tgagccaagg agtttgcttt  480
agcacgcacc aaaagggact tttgagcagc ttccacattc tcagggtgtc cttgccatgt  540
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<210> 13028

<211> 558

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220143g08a1

<400> 13028

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aagctcagat cagcgatggc agcagcaacc cgcacttctc tgcggttcct cctctcagtc 180
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gttagccctt gtacttggtt ccacgtcacc tgcaaccagg acaaccgagt cactcgagt 360
gatcttggtt actctaacct atctggacat ttggtacctg aacttgggaa gctggagcat 420
ctacagtatc ttgagttgta caaaaacaac attcaaggaa ctattcctcc agaacttgga 480
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ccttcattgg ggaaattg 558

<210> 13029

<211> 558

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220143g08d1

<400> 13029

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tctttctagc ttcaatttat tcaaactcat ttgctagaag ttgaaaaaaa ataaaatata 180
gcacatctaa gtccccttcg aattcactgc taagaaggaa tgataaataa ctaaaagaaa 240
acaactgaaa gccaaagact ccaaagttt tagtaggtat agcccttgac aaacattccc 300
ttcttggcct cttcactctc accctcagca gagtatcttc caagttgagc caaggagttt 360
gctttagcac gcacaaaag ggacttttga gcagcttcca cattctcagg gtgtccttgc 420
catgtcttaa gcacagtgtt ctgaagagcc cgtgcttatg agaaagaaac atgccatggg 480
ttgggacttt ggttcattggc atttagattt agtgggtgctt ccacttggga ttgccaccag 540
acaaaaacat gattccgg 558

<210> 13030
 <211> 222
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143g09a1

<400> 13030

agttcaaaag gtttccaacc cacaaaaaaa caagggggcc caggggggaa aaaacaggaa 60
 aaaagaccgg cacaccacca aaaaaaaaaa acaaaaagga caccagaagc cacacaaacg 120
 gaaacacagg cccacacaac cgcccacaag acgcggacca agcaaaggaa aggggacggg 180
 ggcggaacca aaaaaccag cacgcccgc ccagaggaac cc 222

<210> 13031
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143g10a1

<400> 13031

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 ggggggtttta ttcaatggag aaaggaacc atataaatat atctatatat agatagatag 120
 atagatatag cttttcttac aaccaattg aaggccgtac tgagatagtt cttgacaaca 180
 ttttcattca atatttgcaa cactttgggg ttgggagggc ccacccatct tgatgtcttg 240
 aaccggctca cagcagctcc tagggcaagg gaatgccaa gaacctccgg gaatggtcct 300
 ctccgaacaa cccggagtgc gggggcccct atgccgtga ctttgogtga gcctgggtag 360
 ccagcatcaa caagagactt ggccaaacag gtggagcatc caccaagcac ctcttgactt 420
 gcttcaccac ttatttccca aaa 443

<210> 13032
 <211> 541
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143g10d1

<400> 13032

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 gggtaaattt catttcattt catcaaaata atgggtacat tacaaagctt tcttatatca 120
 caaccaataa cgcgccctaa aataccaaca aagagggccc caagagggtt attttaaccc 180
 aaacaaccta tgccccgtct gattcaaacc caggcttcgg ccaacgtacg aactcggacc 240
 catggaataa ttcgttatat gcccaatggg tacataacac aacaaaaaca aattaacagg 300
 gtaagaaaca aaataacaaa catgtactac gtattagcga ggcattgcctg aatggtggga 360
 accactgaaa atttaattaa attaaatgcc accaaggac tctggggggg cactcgggaa 420
 cctgactta tccctacaat agccatagat aacatgggtc aaacgaaccc acctgtacct 480
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 g 541

<210> 13033
 <211> 561
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143g11a1
 <400> 13033

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 aaaaattcag acacaatgga gaagagccca agctctttct gattacaaac agcaaaagaa 120
 agcaactgtt acacttcaat gtctatggag agctaaagtg gcaaggaaag agctcagaaa 180
 gcttcggatg gctgcaaggg aaactggggc acttaaggaa gcaaaggaca agttggacaa 240
 acttggtgag gagcttacat ggagaataga tatcgaaaag cacatgagga cggatcttga 300
 agaagctaaa gggcaagaga ttgcaaaatt gcaaatgct ttacaagaaa tgaaagctca 360
 gttagatgaa gcccatgctg cacttatata tgaaagagaa gcagcaaaaa tagcaattga 420
 acaagcacca ccagtaatta aagaggtacc agttgtggac gaaaccaagc tagagttact 480
 gacaaaataa aatgaggagt tggagactga agtagatgag ctgaaaaaga agattaaaga 540
 gtttgaagaa agttgctctg a 561

<210> 13034
 <211> 581

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143g11d1
 <400> 13034

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 aactaaaag ggtaagaaac tctaaatcta aaccacttaa tccctacaac accacactta 120
 aaccgtggta gagagctcaa tttggttccc ttctgaattg ctatccccctt tgtcatggac 180
 ctgaattggc ttgtaggtgt acaatttggc acaaaccaag tagtaaataa gattgagaaa 240
 ctgcaatatg gtgataagcc agtaaaagta ctccaacttc cctttgttga ggttggtgtc 300
 agggagccaa tttgacccat tagaccacagc actgaacttg tggaccaaag taaccataat 360
 ggtactcaca tagttcccag cagcgatagc agtccaaaat aatgccatgg cagtgtcctc 420
 catactctca ggggcctggt catagaaaaa ctccaagtgt ccaattgaca taaaggcctc 480
 agccattcca tgaaggctgt tttgagggac aagccagaac actgagaatg ggattatggc 540
 atgtgggtgg tcaaaagccc atgggccaca gctgcctttt t 581

<210> 13035
 <211> 589
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143g12a1

<400> 13035

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 agagactgaa aacatcatgg ccaacctcga cctcgacca ttccagacaa gcatcttaat 120
 cctcgtccca atagcactcc tgggtggcgtt actatctcgt actcgtcgaa gagcacccta 180
 cccaccaggc ccaaagggtt taccaatcat aggaaacatg ttaatgatgg agcagctaac 240
 ccaccgcggc ctgcgcaacc tggccaaaca ctacggcggc atcttccacc tccgcatggg 300
 gttectccac atgggtcgcca tctccgaccc cgtcgccgcg cgtcaggttc tccaagtcca 360
 agacaacatc ttctccaacc gccagccac catcgccatc agctacctta cctacgaccg 420
 cgccgacatg gcttttgccc actacggccc cttctggcgc cagatgcgga aactctgcgt 480
 catgaagctc ttcagccgca agcgcgccga gtccctggcag tcagtccgcg atgaggtcga 540

cgccccgctt cgcgccgtcg ctagcagcgt cggaagccc gtcaacatt

589

<210> 13036
<211> 395
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220143g12d1

<400> 13036

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cggcctcata attggacgtt tacaatttcc atgactaatt accagtggga cttgctagac 120
aacaaggaaa accccttgtc caatcaatca acagtattaa ttgccctgac ccatttcaaa 180
tcctagtatt catgaaccga tcacccact gccttttaaa aactcccaa ttatgcctaa 240
cctatgagaa caaaaggcta tctaccccca cgaaactttg ggtcgaagct acaaccattt 300
gaaacaattc caaactcaag gatgggatat ccagcccag cttcgtgacg tgctaataca 360
aactgaaacg ctctaacaaa ttggctgttt atttt 395

<210> 13037
<211> 414
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220143h01a1

<400> 13037

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cgtgtaagtg acaagactcg cggaacacgc tcggctgggtg ttaacaatcg tccgatagag 120
gctagaaatg ggctatgtac atgacagaag cttctagagg tgctaaatga tatgtgcctt 180
atagagcatc aaacatgaag catgcctctt gacttggctc tggcgagtga gcttgatcga 240
gtgtgccacc gacttgatca gctgatccac gaacagcgt cgaaccagaa cgatgtagag 300
tatggcatga accactttgc atgacagaac gctgcttggc atagatgaga acgagaaagg 360
attcatgatg ccataaaaca cgtgggtgaa taacttgcag tggagaacaa gttg 414

<210> 13038
<211> 590

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143h01d1

<400> 13038

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 aatgtaaagg tgtgacaggt gcttttccac gtcttcaacg tctttctata gagtattgtc 120
 ccaagctgaa agggcacttg ccagagcaac tatgtcattt aaattatcta aagatttatg 180
 ggtgccaaca acttgtacct tctgctctca gtgcccctga tattcatcaa ttatccctag 240
 gagactgtgg aaagctgcaa attgctcatc cgacaacttt gaaagagctt accattacag 300
 gtcacaacgt ggaggcagcc ttactcgaac agattggacg cagttactct tgttcaaata 360
 acaatattcc catgcacagt tgctatgatt tccttgtaag gttggctcatc aatgggtggct 420
 gcgactctct aacgaccatt ccactagata tcttcccaat actcaggcag cttgatatca 480
 agaagtgtcc taatctacag aggatttcac aggggcaggc tcataatcat ctccagcatc 540
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<210> 13039
 <211> 578
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143h02a1

<400> 13039

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 cttgtgttaa tcatgaaact ggagtgggtg aaccaaagaa atttggctctt cttgcaaatt 180
 ggcaaagaga gtacaccatg gaggacatac tgaccagct gaagaaggaa atggctgctc 240
 ctcataaccg gaagcttgct cagcctccgg aaggctaccta cttttagcat ccaacaagat 300
 ggtatagatg tcggatcgta ttgcatatgc tgcattgcaat atatagtgtg taatgctttg 360
 tagatccttc cttctgaatt caagaacata ggggaatgcc ccgaaaagct tcatatttcc 420
 atctccatgg cttcagagtt gttttgctgt ctttgtcaac ggtgctgaag gggactgttt 480
 gattgaaata ttggtgtgtc aaaaattttc gaagcaactc tttaagtagt attttatgta 540

atgtgtgctt tggctatggt tggcactct aatagtgg

578

<210> 13040

<211> 414

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143h02d1

<400> 13040

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atatcaacta ctcaagggca agggaaagct tccaacctta tgctggcggc gagactggtg 120

tcggtatggg aacctacaaa tgagcttcta gttaagaatt ttacagcaaa catttaggtg 180

tgactatata tggagtctgg attctgcagc acatttcctt gatttttagtg catttattgt 240

atttactgtc tagctacttt acaagaatgg tatacgttgt atttttagtaa ttttttggtg 300

ttgttaccta ttgtcgtatg ttatgggtga ctgattcatt gcttctttac atttttgaag 360

ttctttgtca tgtatacatt tatcaacaag agaaataatt tcttgcatte tctg 414

<210> 13041

<211> 588

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143h03a1

<400> 13041

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cgacagcttc attcaccatg gctgagcaaa ccgagaaggc ttttttgaaa caacaaaaag 120

tgtttctcag ctccaagaaa actgggaagg gaaagagacc cggaaagggg gggaaccgct 180

tttggaatc cattgggctt ggatttaaga ctcccaggga agccatcgaa ggaacctaca 240

ttgacaagaa gtgccccttc actggcaatg tttccatccg tggccgtatc ttggctggaa 300

catgtcacag tgctaagatg aacaggacta tta;tgctag gaggaattat ctccatttta 360

tcaagaagta ccagaggtac gagaaaaggc actccaacat tcttgctcat ataccacctg 420

ctttccgtgt gaaggaagga gatcacgtta ttattgggtca atgcaggcca ctttctaaga 480

ctgcgagggt caatgtgttg aaagtgatcc cagctggatc ttctagcggg gcaaaaaagg 540

cttttactgg aatgtgaagc ttgattttcca gttttattga agataatg

588

<210> 13042
<211> 634
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220143h03d1

<400> 13042

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aaacctcaaa gaaggtccaa agttgacaag gttttcatat ttgttatcat ccagaaaaga 180
aatcagatat aataattaat aaggtaacat ttatcttcaa taaaaactgg aaatcaaagc 240
tcacattcca gtaaaagcct tctttgcacc gctagaagat ccagctggga tcactttcaa 300
cacattgaac ctcacagtct tagaaagtgg cctgcattga ccaataataa cgtgatctcc 360
ttccttcaca cggaagcag gtgatatatg agcaggaatg ttggagtgcc ttttctcgta 420
cctctgttac ttcttgataa aatggagata attcctccta acaataatag tcctgttcat 480
cttagcactg tgacatgttc cagccaagat acggccacgg atggaaacat tgccagtga 540
ggggcacttc ttgacaatgt aggttccttc gatggcttcc ctgggagtct taaatccaag 600
cccaatggat ttccaaaagc ggattccacc cttt 634

<210> 13043
<211> 559
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220143h04a1

<400> 13043

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aatacggtta cgttcgcaag gtatcaggac cagtcgctcg tgcagatggc atggctgggg 180
ctgctatgta tgaactcgtg cgtgttggtc atgataatct cattggtgaa attattcgtc 240

tcgaaggga ttctgctacc atccaagttt atgaggaaac tgctggcttg atggttaatg 300
atccggtggt acggactcac aagcctttat ccgtggagtt gggacctgga atactgggga 360
atattttcga tggaaattcag aggcctttga aaactattgc tanacgatct ggtgatgtct 420
atatcctcgt ggtgtctctg ttccagcact cgacaaagat acactttggg aatttcaacc 480
taagaaaatt ggtgaaggcg accctttaac tggaggagat ttatatgcta ctgtttttga 540
gaacagtcta atgcaacac 559

<210> 13044
<211> 569
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220143h04d1
<400> 13044

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aagataatcc acttccacca aaaattccac ctatatgaat ccagaatccg cttgctgtag 120
gcacttcattg tctaagata attttattct cctaaatata tattgaaaga gcaagtctcg 180
tttcttattc tcaataaaca aactgaggat gactgaaaca catgattata gctacacatg 240
agactagatc aaaagccaaa ccagcaccaa gaaaggaaat aaatgtgata tgaatgaatc 300
gaacagtcāa atatgagaac actcgggacg ttgcaaccct gcgatgctag actgcgtctt 360
acaattggaa ataacacaat atttgagcaa actaccaaāt cttcaatcat caatcatcgg 420
gtttcgtcct caagggttgcg gaaaccatta gtcaggtcct catgtaactt ctgaaatttc 480
gcaaccaaag cagcttcccc ttctgctgga tctctaaatt tctgagacac taatcggtag 540
aacagatctt ccatacgatg cttgatagg 569

<210> 13045
<211> 592
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220143h05a1
<400> 13045

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 tttcgtatca atagaagctg gaatcgtatc gaatcgcgag atacggatcg tgaatcatta 180
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 tgctgtcaaa tttgcaaatac tttgtcattg tttctctgaa tgggcagatg taagagcagt 360
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 atacacggat gacgatgaat ggtctagtgt gaagaactta ggtgatagtg tgcttcacat 480
 tgagcttcgc aaatgggcag atatcatggt catcgctcca ttatcggcaa acacccttgg 540
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<210> 13046
 <211> 571
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143h05d1
 <400> 13046

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 tagcaccgga aaagctgtat ttagaccact attgcagccg ctacagcggg tattgaaaat 180
 cgctcagcga tttcgacttc catagtaact cagggctgct gcgctccgtt atcctgctat 240
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 gaagttgaga ttcacataat gcacaaggaa gatgatttgc caagattttt tacatgttca 420
 tttcatgctt accgtttggg tattcaacag gtttgcattt tgtagcgta aaaggtcatt 480
 atctgcatat aatctgattt tttctgcata aaaagttcat cttgtggatg cggctctgatt 540
 gctagcaact tcagattttg tgcttgctgt t 571

<210> 13047
 <211> 506
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143h06a1

<400> 13047

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acttggtggc attggctttg gagcctcttt ttteggattg tttgctgcca ttgctgctat  180
ttatctgttg attttggatc gtacaaactg gaaaacaaat attctcacag cactactcat  240
tccatacatt ttcttcagct tgccttcatt aattttcgac gtcttcaggg gagagcttgg  300
aaaatggatt gctgcagttg ctgttgattt acgccttttc cttccaagac acttccctga  360
ttggctggaa ttgcctggtg ctctgattct tcttatcggt gtagctcctt ctctaattgc  420
aagcaccttt agagacaaca ttgttggggg ggtagtgtgc ctcacattg catggtattt  480
gctgcaagaa cacattcggg cttctg                                         506

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<210> 13048

<211> 636

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143h06d1

<400> 13048

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tatatttctc tatgatacag tgtatatacc aaacatcggt attccctgac taagttatcc  180
atcccatgt tgagggggag aagccactag catctcttcc actttatcca tgtcccgtgc  240
ctagtaaaac caatctccac aagccattcg ctaattggct aacataaaat aatgcactct  300
ctcaagctat ttgcatgcta atgagagttt gcttttctgc aactaaagaa gaatctagta  360
caaaatatgt attctgcaa caatgacagg tttagaaaca gaacttttgg ttggcaggat  420
atcaagcgat gatgaaaaat cccgaatatg cagtatttat tcaagtcgtg aatcaaatca  480
tatatatgct agtgagccac gatcaaagtc cggctgaggt cgaccccgag taggagttgg  540
tggcctctga atattaagct cctgcatcca tgtttcatcc ataacacgct caggagatgt  600

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636

<210> 13049
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220143h07a1

<400> 13049

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aagctcagat cagcgatggc agcagcaacc cgcacttctc tgcggttcct cctctcagtc 180
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gttagcccct gtacttggtt ccacgtcacc tgcaaccagg acaaccgagt cactcgagtg 360
gatcttggtg actctaacct atctggacat ttggtacctg aacttgggaa gctggagcat 420
ctacagtatc ttgagttgta caaaaacaac attcaggaac tattcctcca gaacttgga 480
acctaagag tctagttagc ttggac 506

<210> 13050
<211> 555
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220143h07d1

<400> 13050

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ctcatctagt gatgaatcag aggcagagtc atctagtgtt gagtttgatg tagtctccaa 180
ttgaccccca ctctcgttat cggaagttcc cactgtcctt tcttcatgag ggtgttttag 240
gcaccaagac attatactag ctgttagtgt aaggatcatt tttggattca cctcagtgat 300
gtcttcagga agcaggaata tagaacatcc aagctttctt gcaatactga taatgtaggt 360
ggcgttcac tttttctctt ggtaggttac tccctttggtt acaagacccc aatttacagc 420

tctgggtgtc actgaactta gaagctcaag gaaaaatatt ccatctgata aactttttatc 480
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 aaaatatcag catca 555

<210> 13051
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143h08a1
 <400> 13051

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 tccatttcac attattatta ttgtttttta ttgtgtgtaa aacaaggga gttgtgaaac 180
 ttccgcaaaa tggttcaggt ccagcagtggt tgggtgttgg agattcaatc gtggacactg 240
 gcaacaacaa caacaactta ggaacaacag ctcggtgcaa ttaccaccca tatggtaaag 300
 attttgaggg aggcaaacca actggtcgat ttagcaacgg aaagggtcca tctgacttta 360
 tagctgaaga attgggcatt aaagagtatg taccagcata cttggatcca catctccaac 420
 ctggtgaatt ggccactggt gtgtgctttg catctggtgg tgcaggatac gatcctttga 480
 catcgc 486

<210> 13052
 <211> 499
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143h08d1
 <400> 13052

ggaaaaaggc caccacaaag tattacttat ctccaatctc cggagtcagg aattacaact 60
 taactttcat ctggacatta aattaataac aacgaaatac ttaaactctaa tctgaaattg 120
 gcccccaaaa aaaggatttt cctttaaaca aaaattgaca ctataggata tcctcagctt 180
 ttaaaaaaat gccagaaaac tccagcagct gacatgggga actacatatg ctaacgctca 240
 aaaggagcca cgccttggcc tgtcctcagc aacactcacc ttaattgccc ttccgtccaa 300

acttttgcca tcaaaagcag caccggcatc attcatttct ggctcatcag acattgggac 360
 aaagccaaag ccacgtgatc gacctgactc cctgtcataa actacccgag cattttacaac 420
 attaccgtgt ttactgaaaa tttgcttcag ccgggtattg gcaacatccc atggcaaatt 480
 acccacattg attgataag 499

<210> 13053
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143h09a1
 <400> 13053

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 caccgtcacg caaaaaaacg cccttgcccg gccacggaca acgccgggag ggggccaacc 120
 ctggccaacc ccaaccaag ggccgggccc ggcaccccc caaaggcggg gggcaaaacc 180
 aagaaggggc ccgtgacgat cgcccccccc accggaggcg caaccggaaa ggggaccggc 240
 acgcgccccg ccccgcccc tcaccccccg cgggaggggc gggaacgccc accgtgggcg 300
 gccccccgc cacagcccca acgccggcgc ctacgggggg tgccccccgc cccgggcccc 360
 gggcacaggc cgccccctc aagcccgacc ccg 393

<210> 13054
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220143h09d1
 <400> 13054

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 gtaaagtcca tttcatttca tcagaaaaat gggtagctta caaagctttt ttatataca 120
 accaataacg cgccctaaaa ttcaaagaaa gagggccaca agaggtttaa tttaacaaa 180
 acaacctatg ccccgctga ttcaaacca ggcttaggcc aacgtacgag ctccggccca 240
 tggaacaatt cgctatatgc ccaggggga cataacacag caaaaacaa ttacccgggg 300
 aagaacaaa attacaaaca tgtaccacgt attaacgagg gctgcctgaa tgggtgggaac 360

cactgaaaat ttacttacat taaatgccaa caagggactc tggggggggcc actgggaacc 420

ctgacttat 429

<210> 13055

<211> 489

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143h10a1

<400> 13055

ataaaacttc gttataaatg aaatgcggt taaaacatcc ctcagcagca aaggaaatgg 60

actaaaaccc tatagctgct tgtgaaattc gaaatatctc agactcttct taccatcaaa 120

acaaaaaaca gtactcatca aaaacaaaca gcaatgaaaa ttgaccaccg cggatcaaga 180

acctagtttt gaaagttacg gctacatgaa atcggcagaa acttaaaaat ataacttaaa 240

caaaacacct aagactctgc aaggataaaa ctactataaa ggagtaacca cgatgatgat 300

cacatgtgct agcaaaattg cccaaatgca atcacttctt cttggcagcg gccttgggtga 360

ccttgggtcc ggtgggggtct ttcttctcaa cactcttgat gactccgaca gccacagttt 420

gacgcatgct cctcacagca aaacgaccaa ggggaggata ctcaaagaaa gtttcaacca 480

ccatggggt 489

<210> 13056

<211> 261

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220143h10d1

<400> 13056

atgtagtcaa tatgctaaat atggaaaggg agaagagtca aactcaaaga caaaaacatc 60

tataagatga cttctgttac ataaatcaag ctcaggacct ctagtgcact acttaaaact 120

attttcatca gacttaagga taccatatta gcttgaagggt aaaccattgg aatattgtcc 180

cagaaatgat ggctgcgga tagtactttt cttgaacttt atctccttaa tgatcatgat 240

tgatcctagg ctgctttccc c 261

<210> 13057
 <211> 616
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143h11a1

<400> 13057
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 tacggcaata ccgagcacgg canncnnann aaaaggaaan ncaaancatn ncnnnnataa 120
 atttaaaaaa ttttctttta ttaaattatt aatggaatta aatagttaaa ttaataaaat 180
 tagtcgtggt ttattcgatt ttttgaattg gttttttttt acagtagcta atgctagtca 240
 ccgaacttag tcaatgagct agaatgggtt ataaagatat ctatagatat atatagatat 300
 atttatctat agatatcttt agaaaaaaaa aaagaaaata aacaaataag acgtatcatt 360
 ttatgtatag tagtggggaa ttatgggaca aaaaataaat ccgcttggtt tcagacttgg 420
 tacaactcaa agtcatgatt ctatttggtt tgctcaacca acaaattatt ccgagaatat 480
 acaagaagat aaaaaaatac gagattgtat caaaaattat atacaaaaaa atataagaat 540
 atcctctggt gttgagggaa ttggacagat aaagattcaa aaaagaattg atcctattca 600
 agttataata tatatg 616

<210> 13058
 <211> 355
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143h11d1

<400> 13058
 attaataaaa taggaccgt gtgactacta acggaaacgc atggccccta catgggcaaa 60
 aggctttgaa ggaaaaccac ttaatgccta caacgccaca ctaaaaccga ggagacagc 120
 tcaatacggg tccctgctga agtgcaatcc actttgcgaa ggacctgaat tggcttgcaa 180
 gcgcacaacc agggggcccc catttaggaa atcagattga cacactgctg cacggcgcta 240
 ggccattggg agaaccccaa ctggcctgag cagaggggtga aggcaggggg ccaacaagac 300
 ccataacacc cacacctgtt gttgcggacc actgaaaccc tatggggact cacat 355

<210> 13059
 <211> 668
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220143h12a1

<400> 13059

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gccctgcccc cccaggccnn ctggccagga gccacgcact ctcgtaancn ctatgggcaa 60
tacctaagct cgccattctt attaaaatga aattcaaatac atttctttta taaatttaaa 120
aaattttctt taattaaata tttaatgaaa ttaaataattt aaattaataa aattagtcgt 180
gttttattcg attttttgaa ttgggtttttt ttacagtag ctaatgctag tcaccgaact 240
tagtcaatga gctagaatgg gttataaaga tatctataga tatatataga tatatttatc 300
tatagatatc tttagaaaaa aaaaaagaaa ataaacaaat aagacgtatc attttatgta 360
tagtagtggg gaattatggg acaaaaaata aatccgcttg gtttcagact tgggtacaact 420
caaagtcattg attctatttg gtttgctcaa ccaacaaatt attccgagaa tatacaagaa 480
gataaaaaaa tacgagattg tatcaaaaat tatatacaaa aaaatataag aatatacctc 540
ggtgttgagg gaattggaca gataaagatt caaaaaagaa ttgatcttat tcaagttata 600
atatatatgg gatttccaaa gttttaatag agggtagtct caaaaatcga agaatacaga 660
cgaattgc 668
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<210> 13060
 <211> 523
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220143h12d1

<400> 13060

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aacttctgta agttcttttt tgaacaata aatgggtaag ttaaggggga aatccaagtc 60
ggggaaagaa aatttttagaa ttacatgtag aaagctaact acatcctgca cctcaaaaca 120
gactcctcag caaaaactcc gcctggagag caagttgaaa gggaaacca caacgaata 180
ctaccatatc ctttagcatc ttataggcag taactcactc tagctttata ccgtccatct 240
cattgatcac cccttcaagc ttgacaatct gacgcaaaaa gtaatcccca taacgtttgg 300
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caggcttaga ctccataaca tgaattgtgt catcattaat atagaaatct aaatcggcat 360
 tggatgtaat tttcccatca ctatcaacag catgtgtctt gtgcttgtat gtcatcaaga 420
 tagtccttaa ggtgggttca tccacttcca tgtaacttgc aagttttgtg agggagattg 480
 ttgaatacac tttcaagaag gtccggacac ctgatagcaa ctg 523

<210> 13061
 <211> 530
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220144a01a1

<400> 13061

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 tccaccgcaa ccaaccacaa tgggtgccgt taggtccata acggtgttgc tactagtgtt 180
 atttatggcc atgagctccg gcggtgcgtc gtgtccgccg tcggacaggg cggcgctgct 240
 ggcattcaag gcggcgctcc acgaacccta cctgggaatc ttcaactcgt ggaccggcgc 300
 cgactgctgc cacaagtggc acggcgtagc ctgcgaccag gagacccgcc gcgtcgccga 360
 catcaacctc cgcggcgagt cggaggagcc gatcttcgag cgcgcccacc gcaccggcta 420
 catgaccggc tacatctcgc cggcgatctg caagctcgcg cgcctctcca gcatcaccat 480
 cgccgactgg aagggaatct ccggcgagat cccgcgctgc atcacgacc 530

<210> 13062
 <211> 588
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220144a02a1

<400> 13062

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 ataaagggga acttggtgat tatgcgaaag aatgtgttgg atatcaacag cattaccagt 120
 gttaaggggtg tcatcggaac cggcattaac atcattggag gagtcgtcga caccgttact 180

gctttggcgt cccacatctc catccagctc attccatatt tgaggaaaat aaatgcaact 240
 accacaaaga cttacgctac aagaaccata tttttcttga aaagtgatgg aaccttgacg 300
 ccattggcca ttgagttaag taagccgcat cctcaggggtg aaggatatgg tcctgttagc 360
 gaagtctacg tgccttcgag cgagggagtt gaagcttaca tttggttact ggcaaaggct 420
 tatgttggtt tgaatgattc gtgctaccat caactcgtca gccactggct aaacactcat 480
 gcggttggtt agccattcgt catagcaaca aacaggcatc tgagcgtggg tcaccctatt 540
 tacanacttt tgtttcctca ctatcgtgac accatgaaca ttaattca 588

<210> 13063
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220144a03a1

<400> 13063

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 tgaaccttaa ggctactgag ctgagactgg ggcttccggg attgcagtct cccgaacgag 120
 attcagatct ttgcttgaga agttcaattc agtttgatga aaaaccactg tttcctttgc 180
 atcctgctac tgatgatcac cattcctcat caaagcctgc tgttttgggt aacaaaagag 240
 ggttctcaga tgatcatgag ggattcggcg aggagaaatt gcttggttagt tctgaggtca 300
 acacaatatt gtcaccaagg ctttcttcta atgtggcatt gaaaccaagc tctatgcttg 360
 agaatgttgg ggctcagcaa tccaaagcca aagaactcgc aacagcgaag gttggtcttg 420
 agaggtctca tgttttcaat gatagcagaa caaatctgaa tgattctgct aataacaata 480
 gcagtgcacc agctaccaag gcacag 506

<210> 13064
 <211> 566
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220144a06a1

<400> 13064

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ctccttgcca gaagttaaaa tggcccaaga aactttccta ttcacatctg aatcagtgaa 120
 cgagggggcac cctgacaagc tctgtgacca gatctccgat gctgtgctcg atgcatgctt 180
 ggagcaggac cctgacagca aggttgcttg tgaaacctgc accaagacca acatggtgat 240
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 atgcaggaac attggttttg tctctgatga tgttggtctt gatgctgaca actgcaaggt 360
 cctcgtcaac attgagcaac agagtcctga tattgctcaa ggtgtgcacg gccacctcac 420
 aaagaggcct gaggagattg gtgctggtga ccaaggcat atgttcggct atgccactga 480
 cgagactccc gagctcatgc ccttgagcca tgtccttgcc acgaagctcg gtgccaagct 540
 caccgaggtt cggaagatcg gacatg 566

<210> 13065
 <211> 576
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220144a07a1
 <400> 13065

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 ttctctcaat gaaaatgtaa agctgcaacc atcacgccgc agatctctct ttacactggc 120
 aacatccatg attatcttcg catccaaggc ctacaacatc ctctctctaa tttctattgc 180
 taaaacgaca ttgacagata gaacagttga tccattcctg caactgggta atgatagcaa 240
 gttacaagcg gttactgata cagataagca gccaaagtaa gtttatggat caaaagagga 300
 tgatgaagat gcttttaaagt cactttcagc aataaagtta actgagagcc agtctaaaga 360
 atcatttgct accatgatag tgcagagtct gggaaaatcg tctaatgaat catccatctt 420
 aagagaacgg ctgctgaatg atttctcacc tgatgatgcc tgtccttttg gagcccagtt 480
 atctgccgag acaacaggaa atatgtacca gtctggacta aaagaagata aacttcctga 540
 tatggntgaa atttcattat ttactattga cgatga 576

<210> 13066
 <211> 553
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220144a08a1

<400> 13066

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 aactttgtga aaagattgca tgatcttgca gttcagaaga ggggttatgt tgacttgcaa 120
 gagatgggtca gggaggacag tatcacatgc tcatatggat ccactcttcc acaagatcct 180
 acttgtagat taccatgtag tttgacagaa acagatcctt atactttcct gatagctgga 240
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 gctgcagatt gggtgagatc tgacaaaagg gaagatgacc ttggtggccg tcctgggagc 360
 attgctcaga aatatgctgc acagggagga cccgagttct ttttcattgt aaacattcag 420
 gttccagggt ctactacata tagtctagca ctatactata tgatgaatac tcctgtggaa 480
 gatgctcctt tgctagagag ttttatcaag ggtgatgatg ccttcagaaa tccagattta 540
 aactatccat aca 553

<210> 13067

<211> 529

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220144a09a1

<400> 13067

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 aatggactct ggatcacttg ctatccctcg caaatgttcc taagttcaag atttttcttg 120
 tttatgcaa gccttctggt gcctctgctg tcggttttgt tggccctgga gccgctgagg 180
 tgttacctgt tggtgaggcc gatttgagaa aaacagctgc caaaatcact gaacgtgcta 240
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 ctagaaatgt tctttgagag gcagtggaaa agcaccaagc ttcaatgttg gttgtgggta 360
 gtcattggtta tgggacttta aaaagagcgg ctctaggtag tgtaagtgcac tattgtgctc 420
 atcatgctca ctgcactgtc atgatcgtga agaaacaaa gcacatacac tgatctcaat 480
 cggtggctcc gattaaatag cagtgcacat aaatcttttc agcaacagg 529

<210> 13068
 <211> 541
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220144a10a1

<400> 13068

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 ccggtagtgg acatggccag actcttcgcc ttgcacgacg tcgacgtcac catcatcacc 120
 accgcacata acgccaccgt ttttcaaaag tccatcgatt tagatgcgag tcgcggtcgc 180
 cccatcagaa cgcacgttgt caacttcccc gccgcacaag tgggtctccc cgttgggatc 240
 gaagccttca acgtcgatac gcctcgggaa atgaccccca gaatctacat gggcctatcc 300
 cttctccaac aagtcttcga aaaactcttc catgacttgc aaccggattt catcgtcacc 360
 gacatgttcc accgttggag tgtcgatgct gctgctaaac tcggcattcc aggatcatgt 420
 tccacgcgca tggtatctcg ctgccttcgc tgcgcactcc gtgaacagta cgcacnccac 480
 ttggaagcaa aattcgacac cgccagttcg tggtagctgg gttacccgat aacttggaga 540
 t 541

<210> 13069
 <211> 440
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220144a10d1

<400> 13069

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 gatcgtagat tcgtagtaca tactcaccaa aatgatgatg gacatcctga gtgctagaag 120
 ttacaaaaac caatgaaact aagaaaaaag acaatgatgg atttccttgg gatactgata 180
 ctgctaagac taataagagt gtcccaaaat acattactct tggtcaaaag atggaaaagc 240
 agaaccagtc ttaaggattg ggtgcgggtct cttgagcctc cttggaaagc ttgatctcct 300
 tgagctcccg aatcaattcc ttcattgtgt tgtgcgaaga tccaccaacc tttatagcac 360
 tctatgccgc aacgcttagc tccttggctc tcttctcat tcctccatct tcttcttct 420

caatcatcaa cgaagcaatc

440

<210> 13070
<211> 350
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220144a11a1

<400> 13070

ggtttgaggg tctcttcttt atacggatgg cagcaccatt ggcattgtctt gttgggagtg 60
gtttatctat acagagtaat aaattaactc ttggcaagga cgtcaatgga agatatctct 120
tctcatatca taggctttca gcacaagagt agggagtcaa agacaatatg cataaaggca 180
tccttgatc aaaggaagca tgaagggaga agaggatttc tgaaattggt gaatgtggga 240
gttggttac ctgtattatt aggaggtggg aaagcgtatg ctgatgaaca aggaccttcc 300
tcctccagaa tgtcttattc cagatttctt gagtatttgg ataaggtaga 350

<210> 13071
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220144a11d1

<400> 13071

tggacaanaa ggtatagcta gatgcatncn cnnataaatt ataagaaaca aaccaaaaaa 60
anaaaaaaaa nnaaannaaa nnnnnnnnan nnnnaatttt attttttnat nnnancaa 120
aattacaatg agggaggggg ttaatatgat tactattcac taagggtgaca ttatgtacta 180
attgtgaaga aacatacatt ttctgttgcc aacacaagaa taaaggaatt gcagaagcaa 240
gctaggatct tttgtgatta ctaaaataaa gagtcagggg tatattacaa atattttaca 300
attatagaaa aattcagtat gtggagagct acactacatt gcagtggcat ataggctatt 360
caaacaacat ctggtgaggg agtataagga gggacccgat tttcaagaag aatattaaca 420
gactcggaca ggagagctcg gaattcatct acagacattg tctac 465

<210> 13072
<211> 563

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220144a12a1

<400> 13072

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cccggnnnnn ggntcgnngg ggganccttg gctggnnggg caccctttga agtgcatttg   120
gtgttacagg tactactgtt ccagggttca gtctggcct gagcttgcca caagcacttt   180
ccaacacaag aactgatggg ctaggagcac tctacagaga aggcacagct tccttctca   240
actccatggt gaacaacaag ttcccttaca ctaccaacca agtcagggac aggtttgttg   300
cctcactcaa ctccaacaag gccgcagaag cacaagccca gctcttcaag atggccaatg   360
aaggaagaat gaagcctaga ccatgatgag caagatagat tattaagtaa tcttaattag   420
tttaattttg gtgtgttgat tcaacttaag aacatttata tttaagattt ctgttagttt   480
gtatcattta aggctctaca tgtgttcatt aatatgtctt gagatggata tcatgtttct   540
tcgaacttta atgcaaactt tat                                           563
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<210> 13073
 <211> 505
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220144a12d1

<400> 13073

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aaaaaggagg gannaaaann annnnnaant tttttaattt ttaaaanaan gnnnnnnnna   120
naaaaggggg gggggataaa taaaanaaaa aannagaaaa aaacccccca aaaaaccaa   180
tttccttct acgacttttt attgaacccc tttaagaccc ctttttcttg ccaccctacc   240
caaaatctta aatataaagg tttttacagg gaatgacccc cccaacttaa acctatcaa   300
aatccttaaa aatctttccc ggtcattaag gacaaagctt aattcttctt tcattggcca   360
ttttaaaaaa cctgcctttt tctcttccgg cttttttgga attagaagag gccccaaacc   420
ctcccccttc attgttctaa aaagcaaggg aactttttgt ccccccttct gatgaacaaa   480
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